Cassette car radio 22DC352/00

22DC355/02

Service
Service
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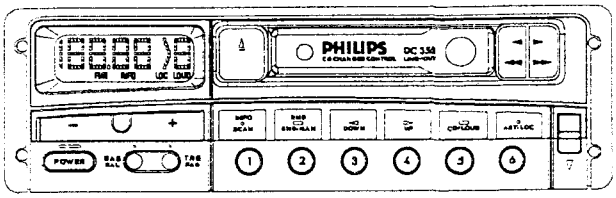

For repair information of the Cassette deck see Service Manual of Auto Cassette Deck CDS36 PR

Service Manual

12 V

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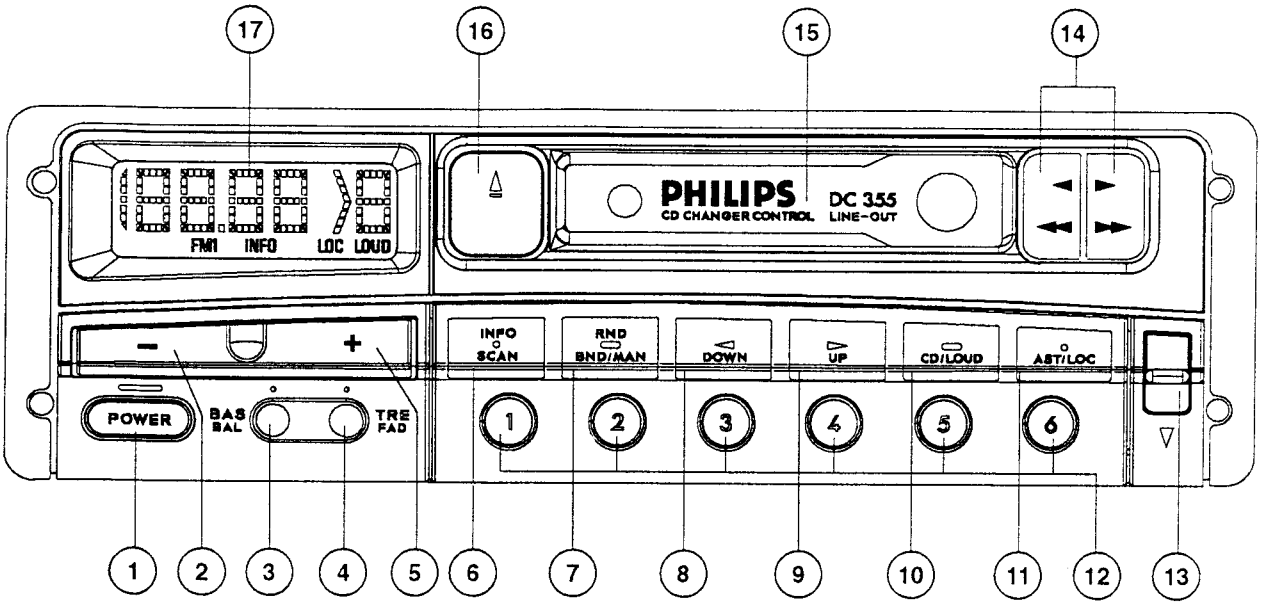
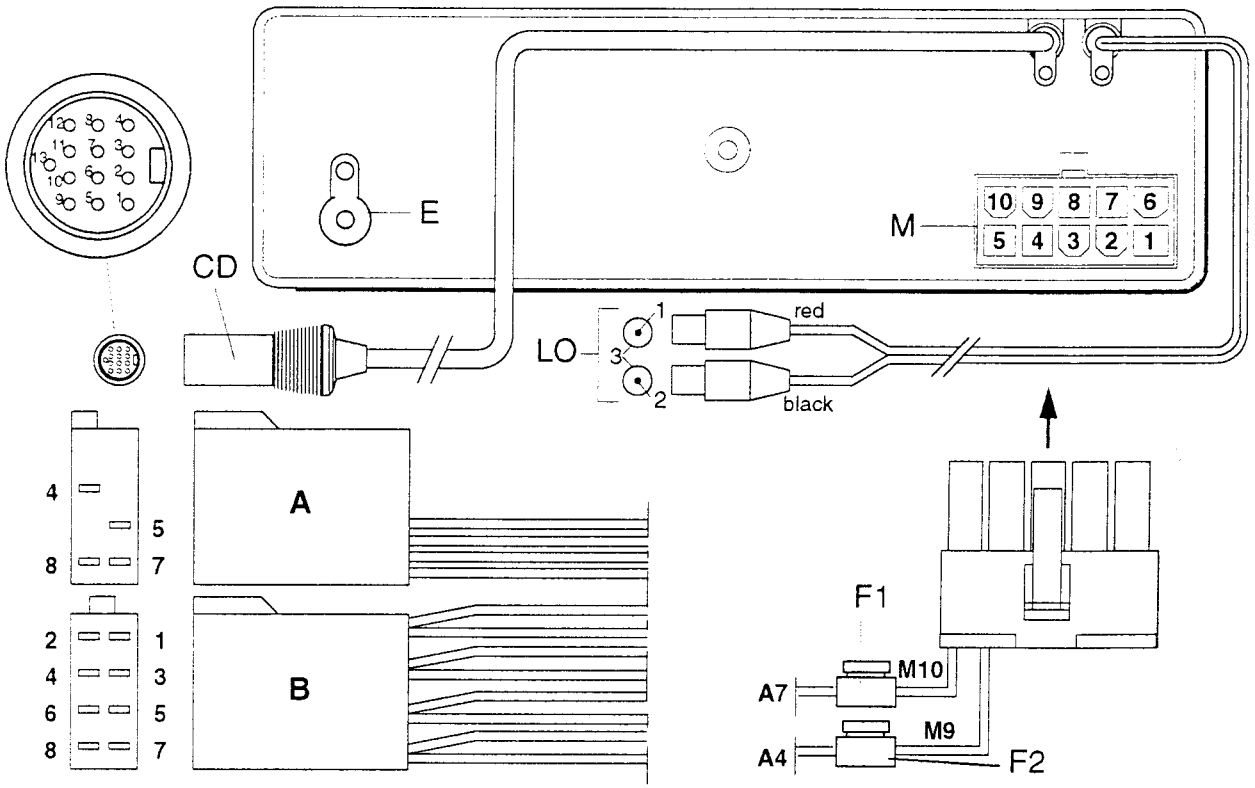
CONTROLS



1	ON / OFF
2	VOLUME -
3	BASS / BALANCE
4	TREBLE
5	VOLUME +
6	SCAN PRESETS / TRACKS / INFO
7	RANDOM TRACKS / MANUAL SEARCH SELECT. BAND SELECTION
8	SEARCH DOWN
9	SEARCH UP
10	CDC SELECTION / LOUDNESS
11	AUTOSTORE / LOCAL
12	PRESETS / DISC SELECTION
13	RELEASE KNOB for detachable unit
14	FFW / FRW BUTTONS
15	CASSETTE OPENING + FLAP
16	EJECT / REVERSE BUTTON
17	DISPLAY

CONNECTIONS



A4 = M9 +12V PERMANENT	POWER SUPPLY	YELLOW / RED
A5 = M4 AUTOMATIC AERIAL		BLUE
A7 = M10 +12V SWITCHED		RED
A8 = M5 GROUND		BROWN
	LOUDSPEAKERS	
B1 / B4 = M7 REAR RIGHT+ / FRONT RIGHT -	FOR 2 X 15 W CONFIGURATION :	BLUE - GREY / BLACK
B2 = M8 REAR RIGHT -	B2 = M8 RIGHT CHANNEL -	BLUE / BLACK
B3 = M3 FRONT RIGHT+	B3 = M3 RIGHT CHANNEL +	GREY
B5 = M1 FRONT LEFT+	B5 = M1 LEFT CHANNEL +	GREEN
B6 / B7 = M2 FRONT LEFT- / REAR LEFT+		GREEN / BLACK - BROWN
B8 = M6 REAR LEFT -	B8 = M6 LEFT CHANNEL -	BROWN / BLACK
LO1 RIGHT SIGNAL	LO : LINE OUT CABLE	RED
LO2 LEFT SIGNAL	CINCH female connector	BLACK
LO3 GROUND		SHIELDING
CD1 SIGNAL GROUND	CD : C.D. CHANGER CABLE	SHIELDING
CD2 AUDIO LEFT	DIN 13P Hosiden TCP9386-21-010	YELLOW
CD3 SIGNAL GROUND		SHIELDING
CD4 AUDIO RIGHT		ORANGE
CD5 BATTERY GROUND		BLACK
CD6/CD10/CD13 NOT CONNECTED		
CD7 +12V SWITCHED		BLUE
CD8 +12V PERMANENT		BROWN
CD9 BUS GROUND		SHIELDING
CD11 D2B +		WHITE
CD12 D2B -		RED
E AERIAL PLUG	DIN 41585	
F1 FUSE	F1 : FUSE 5A	
F2 FUSE	F2 : FUSE 2A	

TECHNICAL DATA

GENERAL

Power supply	:14.4V DC
Dimensions	:180x150x51 mm

RADIO

LW	: 144-288 KHz
MW	: 531-1629 KHz
FM	: 87.5-108 MHz
IF-AM	: 10.7 MHz
IF-FM	: 10.7 MHz
Sensivity 26dB S/N	: 28 µV (LW)
	: 22 µV (MW)
	: 3,5 µV (FM)
Limitation α-3dB	: 3 to 15 µV

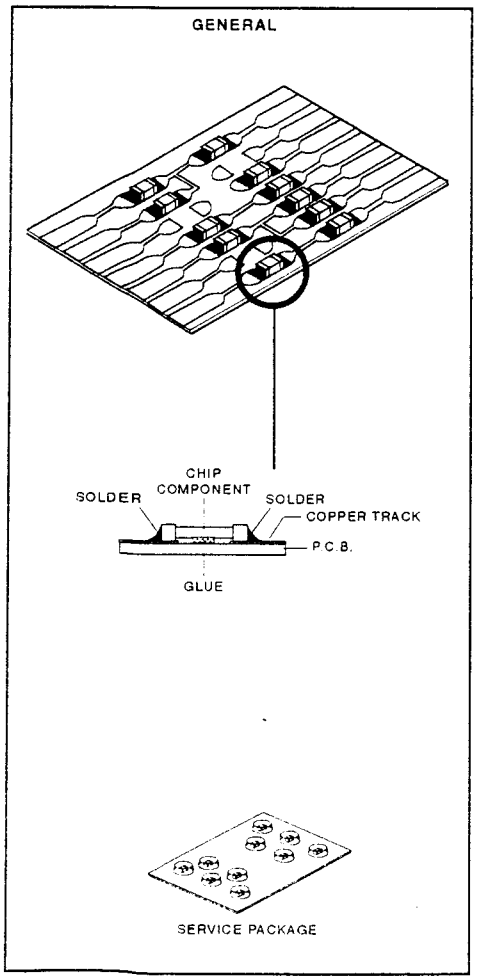
CASSETTE

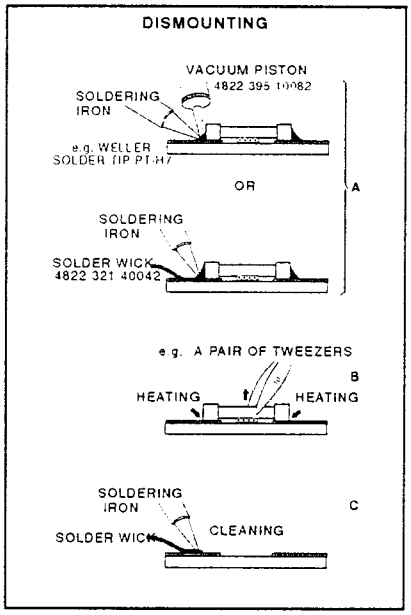
Cassette mechanism	:CDS 36 PR
Number of tracks	:2x2
Tape speed	:4.75 cm/sec
Wow and flutter	:≤ 0.35% (+10° to +45°)
Crosstalk	:≥ 30dB

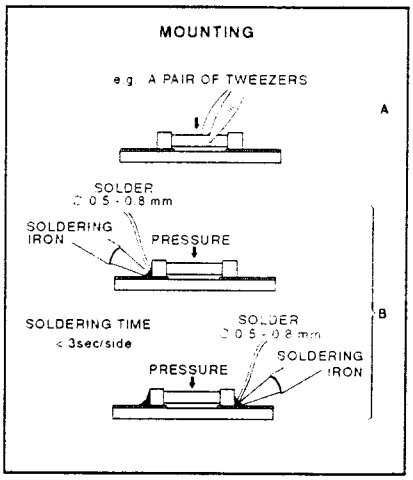
AMPLIFIER

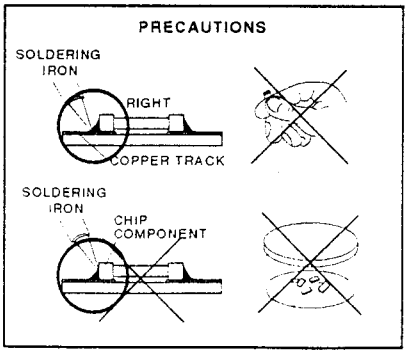
Output power	:2x15 or 4x4.5W / 4Ω (D = 10%)
Loudness	:+7dB ± 2dB at 60Hz
Treeble control	:+10/-10 ± 2dB at 10kHz
Bass control	:+12/-12 ± 2dB at 60Hz
Balance control	:>12dB
Fader	:>12dB
Mute	:-70dB

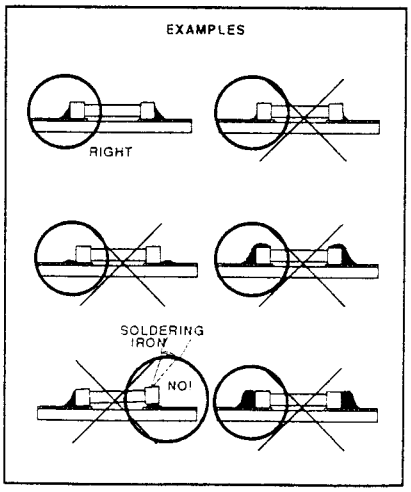
HANDLING CHIP COMPONENTS











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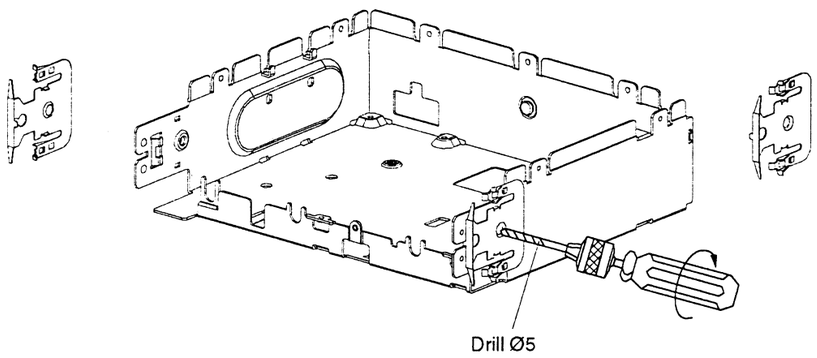
LOCKING SPRING REMOVAL



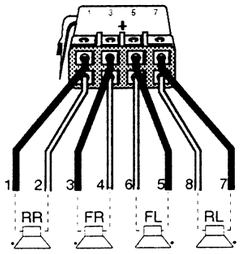
If a Mounting Spring needs to be changed,you have to first eliminate the fastening by drilling it out with a Ø5mm hand-drill

For the fixing of the new one , use a counter-sunk screw Ø3mm, length 5 or 6mm and an M3 nut

LOUDSPEAKERS CONNECTION

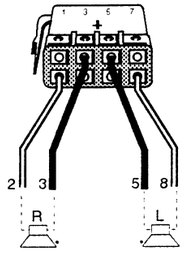
4 Loudspeakers

4X4.5W



2 Loudspeakers

2X15W

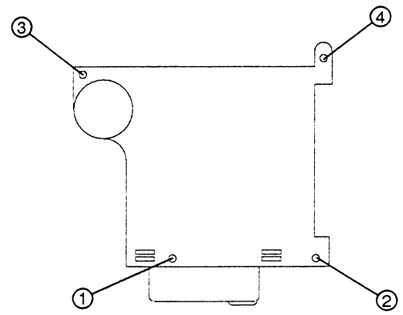


ESD

WARNING

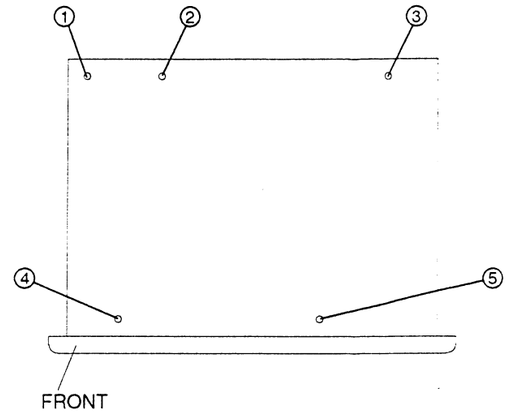
All ICs and many other semi-conductors are susceptible to electrostatic discharges (ESD). Careless handling during repair can reduce life drastically.
When repairing, make sure that you are connected with the same potential as the mass of the set via a wrist wrap with resistance. Keep components and tools also at this potential.

SCREWING SEQUENCE DECK



SCREWING SEQUENCE PWB

Top view



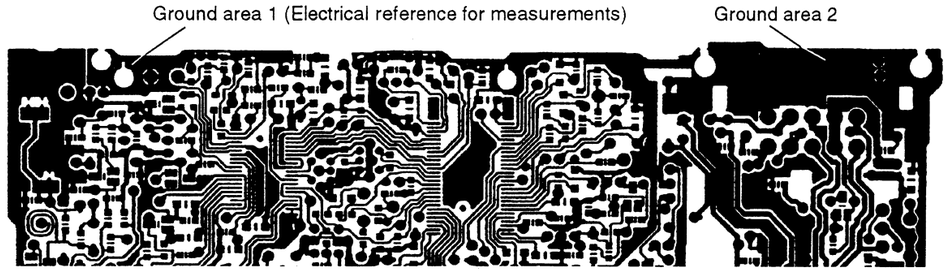
REMOVING THE PWB

1) Disconnect all the cables and flex foils, and disengage the lamp from the light box of the LCD
2) Remove the front
3) Remove the deck (see screwing sequence)
4) Disengage the lamps from the metal frame
5) Remove the transparent LED
6)Remove the cooler of the power IC
7) remove the antenna plug bracket

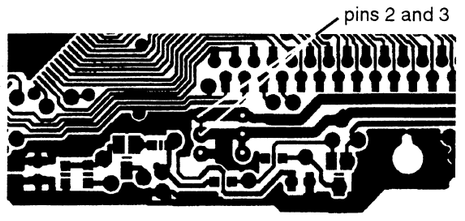
Now you can remove the PWB (see screwing sequence)

CONNECTING THE PWB FOR MEASUREMENTS ON THE COPPER SIDE.

1) Connect a wire (by soldering) between ground areas 1 and 2.
2) Short circuit the pins 2 and 3 of the detection switch.
3) Reconnect the flat foils of the front and the supply cable. Also reconnect the tape deck.

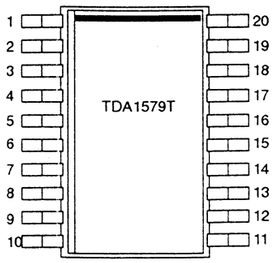


Main PWB copper side



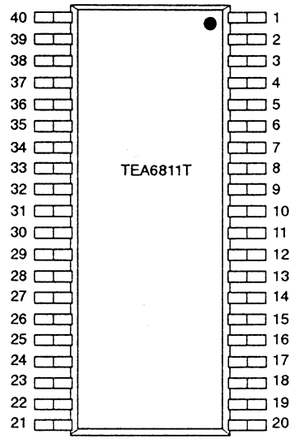
TDA1579T Decoder for traffic warning radio trans-

SYMBOL	PIN	DESCRIPTION
SK	1	SK indicator
DKout	2	DK output current
SKout	3	SK output current
τ_{BK}	4	time delay BK
V_{5BK}	5	filter output BK
V_{6BK}	6	filter input BK
V_P	7	supply voltage
$V_P/2$	8	half supply voltage
V_{9SK}	9	SK detector output
n.c.	10	not connected
n.c.	11	not connected
V_{12SK}	12	57kHz band pass filter
V_{AGC}	13	AGC
I_{14}	14	prestage biasing current
V_{MPX}	15	MPX input
V_{16DK}	16	filter input DK
V_{17DK}	17	filter output DK
τ_{DK}	18	time delay DK
I_{19}	19	reference current for BK, DK detector
GND	20	ground



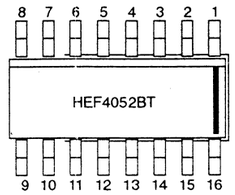
TEA6811 IC91 RF IC

SYMBOL	PIN	DESCRIPTION	SYMBOL	PIN	DESCRIPTION
GNDANF	1	analog ground 5 V	GNDAMM	21	ground AMMIXER
VCCANF	2	analog supply 5 V	AMPREO	22	AMPREAMP output
LCKDET	3	lock detector flag	NC	23	
SDA	4	I2C bus data	AMSBI	24	AM feedback switch SB1
SCL	5	I2C bus clock	AMSBII	25	AM feedback switch SB2
FREFN	6	ref frequency from I2C N-terminal	AMPREI	26	AMPREAMP input
FREFP	7	ref frequency from I2C P-terminal	AMCAGC	27	AM AGC capacitor
GNDDIF	8	digital ground	AMCPRE	28	AM preamp decoupling capacitor
VCCDIF	9	digital supply 5 V	GNDRF	29	RF ground
NC	10		FMRFIP	30	FM MIXER inputs RF
FMIFON	11	outputs of FM-mixer of	FMRFIN	31	
FMIFOP	12	first IF (72.2 MHz)	IPIDIO	32	pin diode drive
VCCE	13	analog supply 8.5 V	FMAGC	33	FM AGC integrating capacitor
GNDE	14	analog ground 8.5 V	REFAGC	34	FM AGC reference voltage
AMMOP	15	outputs of AMMIXER	OSCFDB	35	oscillator FEEDBACK input
AMMON	16	of first IF (10.7 MHz)	GNDOSC	36	oscillator ground
NC	17		OSCTNK	37	oscillator tank output
AMMIN	18	AMMIXER input RF	VCCOSC	38	supply voltage VCO
VREF	19	reference voltage from AMBANDGAP	VTUNE	39	tuning voltage
NC	20		CHPOUT	40	charge pump output



HEF4052BT Dual 4 channel analogue multi/demultiplexer

SYMBOL	PIN	DESCRIPTION
Y_{0B}	1	independant input/output 0_B
Y_{2B}	2	independant input/output 2_B
Z_B	3	common input/output B
Y_{3B}	4	independant input/output 3_B
Y_{1B}	5	independant input/output 1_B
$\overline{E}$	6	enable input (active LOW)
V_{EE}	7	ground
V_{SS}	8	ground
A_1	9	address input 1
A_0	10	address input 0
Y_{3A}	11	independant input/output 3_A
Y_{0A}	12	independant input/output 0_A
Z_A	13	common input/output A
Y_{1A}	14	independant input/output 1_A
Y_{2A}	15	independant input/output 2_A
V_{DD}	16	supply

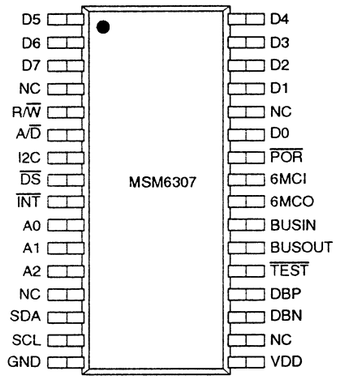


FUNCTION TABLE

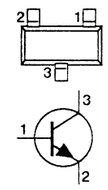
inputs			channel
$\overline{E}$	A_1	A_0	ON
L	L	L	Y_{0A}-Z_A; Y_{0B}-Z_B
L	L	H	Y_{1A}-Z_A; Y_{1B}-Z_B
L	H	L	Y_{2A}-Z_A; Y_{2B}-Z_B
L	H	H	Y_{3A}-Z_A; Y_{3B}-Z_B
H	X	X	none

MSM6307GS D^2B IC

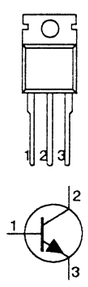
SYMBOL	I/O	DESCRIPTION
POR	I	Power on - reset
R / W	I	Read / Write selector
DS	I	Data strobe to access data bus
A / D	I	Selects address or data on D0 - d7
SDA	I/O	I^2C data signal input / output
SCL	I/O	I^2C clock signal input / output
I2C	I	Selects I^2C or parallel interface
INT	O	Interrupt output
BUSIN	I	D2B input (TTL level)
BUSOUT	O	D2B output (TTL level)
DBN & DBP	I/Os	Differential D2B lines of the internal driver/ receiver, to be terminated with 60Ω
TEST	I	Selects the test mode for factory purposes
6MCI	I	Clock input 6MHz resonator or X-TAL
6MCO	O	Clock output 6MHz resonator or X-TAL
D0 ~ D7	I/Os	8-bit bi-directional address or data bus
A0 ~ A2	I	Programmables I^2C slave addresses



BC847B / BF840

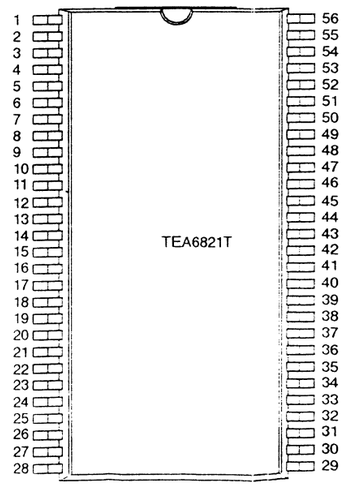


BD939 / ON4694



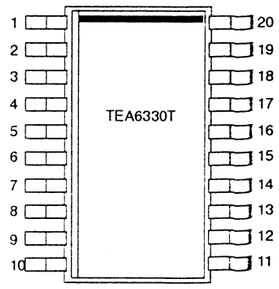
TEA6821T

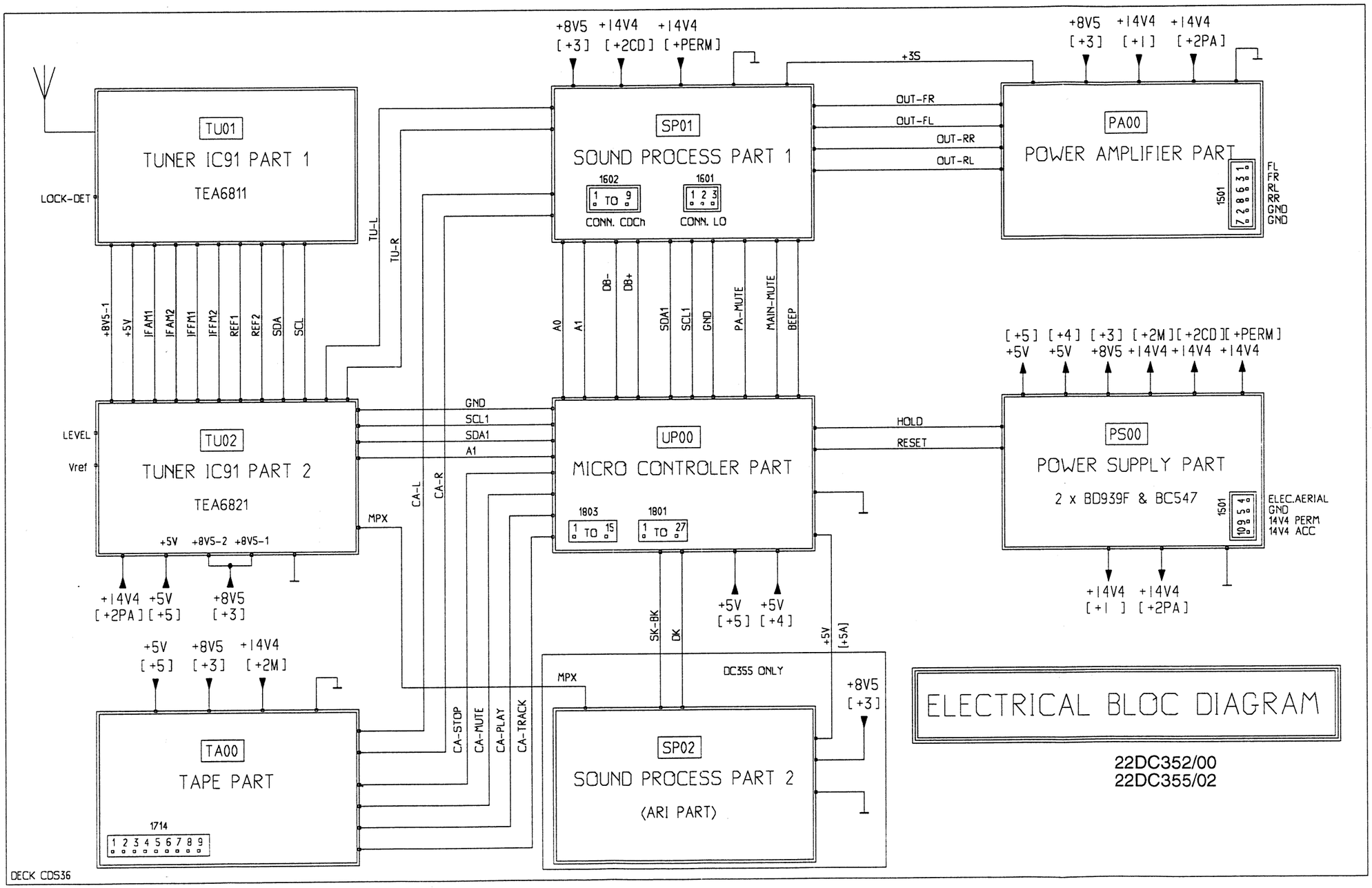
SYMBOL	PIN	DESCRIPTION	SYMBOL	PIN	DESCRIPTION
QDET1	1	demodulator tank	FMIFAMPOUT	29	FM-IF amplifier output
QDET2	2	demodulator tank	AFGND	30	AF ground
TSWITCH	3	time switch	DEEMPHR	31	de-emphasis capacitor right
GND	4	analog ground	DEEMPHL	32	de-emphasis capacitor left
VPS	5	5 V supply voltage	AMIF2IN1	33	AM IF2 input1
HFBUS1	6	HF bus, pull-up to 5 V	AMIF2IN2	34	AM IF2 input2
HDBUS2	7	HF bus, pull-up to 5 V	FMIN2	35	FM limiter input
XTAL1	8	crystal oscillator	DCFEED	36	DC feed FM limiter
XTAL2	9	crystal oscillator	FMIN1	37	FM limiter input
F_{REFP}	10	PLL reference frequency	LEVELADJ	38	level adjust
F_{REFN}	11	PLL reference frequency	C_{AFC}	39	AFC capacitor
I_{REF}	12	reference current	MPBUF	40	multipath buffer time constant
FMIF1IN1	13	70 MHz FM-IF input	OUTLEFT	41	AF output left
FMIF1IN2	14	70 MHz FM-IF input	FMSTOP	42	FMSTOP adjust
TSDR	15	time constant for SDR	RDS/AMSTOP	43	MPX for RDS/AMSTOP adjust
TSDS	16	time constant for SDS	OUTRIGHT	44	AF output right
V_{SDS}	17	SDS control voltage	MPXIN	45	stereo decoder MPX input
V_{SDR}	18	SDR control voltage	IAC_{IN}	46	IAC input
FMIF2OUT1	19	FM mixer output	MPXOUT	47	FM demodulator MPX output
FMIF2OUT2	20	FM mixer output	AMAFOUT	48	AM demodulator AF output
V_{REF}	21	reference voltage	V_{MUTAML}	49	mute voltage / AM level
AMIF2OUT1	22	AM mixer output	LEVELUNWEIG	50	level unweighted
AMIF2OUT2	23	AM mixer output	$I_{ACCONTR}$	51	IAC control voltage
FMAMDEC	24	FM/AM 10.7 MHz decoupling	V_{PDIG}	52	V_P digital
PHASEDET	25	phase detector	SDA	53	SDA, pull-up to 5 V
PILDET	26	pilot detector	SCL	54	SCL, pull-up to 5 V
FMAM10.7	27	FM/AM 10.7 MHz input	BUSGND	55	bus ground
V_{PIF}	28	V_P IF amplifier	$V_{P8.5}$	56	V_P d.5 V



TEA6330T Sound FAder Control circuit (SOFAC)

SYMBOL	PIN	DESCRIPTION
C_{PS}	1	filtering capacitor for power supply
IN-R	2	audio input signal RIGHT
GND1	3	analog ground (0 V)
C_{BR1}	4	capacitor for bass control RIGHTand signal to equalizer
C_{BR2}	5	capacitor for bass control RIGHT
C_{TR}	6	capacitor for treble control RIGHT, input signal for equalizer RIGHT
QRR	7	right audio output signal of rear channel
QRF	8	right audio output signal of front channel
MUTE	9	input to set mute externally
GND2	10	digital ground (0 V) for bus control
SCL	11	clock signal of I^2C-bus
SDA	12	data signal of I^2C-bus
QLF	13	left audio output signal of front channel
QLR	14	left audio output signal of rear channel
C_{TL}	15	capacitor for treble control LEFT, input signal for equalizer LEFT
C_{BL2}	16	capacitor for bass control LEFT
C_{BL1}	17	capacitor for bass control LEFT and signal to equalizer
V_p	18	+8.5 V supply voltage
IN-L	19	audio input signal LEFT
V_{ref}	20	reference voltage output (V_p/2)





ELECTRICAL BLOC DIAGRAM

22DC352/00
22DC355/02

DC VOLTAGES

7202 TEA6811V

1 = GND
2 = 3.0 V
3 = 4.9 V
4 = 5.1 V SDA
5 = 5.1 V SCL
6 = 5.0 V
7 = 4.9 V
8 = GND
9 = 5.2 V
10 = GND
11 = 8.5 V
12 = 8.5 V
13 =8.5 V
14 = GND
15 = 8.4 V
16 = 8.4 V
17 = GND
18 = 0.1 V
19 = 0.0 V
20 = GND
21 = GND
22 = 1.8 V
23 = GND
24 = 0.1 V
25 = 0.2 V
26 = 2.8 V
27 = 0.1 V
28 = 0.1 V
29 = GND
30 = 3.1 V
31 = 3.1 V
32 = 0.0 V
33 = 4.2 V
34 = 4.2 V
35 = 2.6 V
36 = GND
37 = 6.2 V
38 = 8.4 V
39 = 3.0 V
40 = 3.0 V

7300 TEA6821T/V2

1 = 4.0 V
2 = 4.0 V
3 = 0.8 V
4 = GND
5 = 5.0 V
6 = 5.0 V SDA
7 = 5.0 V SCL
8 = 61.5 MHz
9 = 61.5 MHz
10 = 5.0 V
11 = 4.9 V
12 = 4.2 V
13 =2.3 V
14 = 2.3 V
15 = N.C.
16 = 5.0 V
17 = 2.5 V
18 = 1.4 V
19 = 8.4 V
20 = 8.4 V
21 = 5.0 V
22 = 8.5 V
23 = 8.5 V
24 = 3.0 V
25 = 4.7 V
26 = 2.7 V
27 = 2.9 V
28 = 8.5 V
29 = 6.2 V
30 = 1.8 V
31 = 2.3 V
32 = 2.3 V
33 = 0.7 V
34 = 1.0 V
35 = 2.7 V
37 = 2.7 V
37 = 2.7 V
38 = 1.7 V
39 = 3.3 V
40 = 0.7 V
41 = 3.5 V
42 = 1.9 V
43 = 3.0 V
44 = 3.4 V
45 = 2.8 V
46 = 3.2 V
47 = 3.2 V
48 = 4.5 V
49 = 5.0 V
50 = 5.2 V
51 = 4.9 V
52 = 5.1 V
53 = 5.1 V
54 = 5.1 V
55 = GND
56 = 8.5 V

7401 HEF 4052BT

1 = 3.9 V
2 = GND
3 = 3.9 V
4 = GND
5 = 3.9 V
6 = GND
7 = GND
8 = GND
9 = GND
10 = 6.4 V
11 = GND
12 = 3.9 V
13 = 3.9 V
14 = 3.9 V
15 = GND
16 = 7.7 V

7402 TDA7374V

1 = 7.0 V
2 = 7.0 V
3 = 14.4 V
4 = 0.7 V
5 = 0.7 V
6 = 0.7 V
7 = 6.6 V
8 = Earth
9 = GND
10 = N.C.
11 =0.7 V
12 =0.7 V
13 = 14.4 V
14 = 7.0 V
15 = 7.0 V

7602 HEF 4052BT

1 = 3.4 V
2 = 5.5 V
3 = 3.4 V
4 = 3.4 V
5 = 3.8 V
6 = GND
7 = GND
8 = GND
9 = 0.0 V
10 = 0.0 V
11 = 3.4 V
12 = 3.5 V
13 = 3.4 V
14 = 3.9 V
15 = 5.5 V
16 = 7.7 V

7603 MSM6307GS

1 = 5.0 V
2 = 5.0 V
3 = 5.0 V
4 = N.C.
5 = 5.0 V
6 = 5.0 V
7 = 5.0 V
8 = 5.0 V
9 = 5.0 V
10 = 5.0 V
11 = 5.0 V
12 = 5.0 V
13 = N.C.
14 = 4.9 V SDA
15 = 4.9 V SCL
16 = GND
17 = 5.0 V
18 = N.C.
19 = 2.3 V
20 = 2.3 V
21 = 5.0 V
22 = N.C.
23 = 5.0 V
24 = 5.75 MHz
25 = 5.75 MHz
26 = 4.8 V
27 = 5.0 V
28 = N.C.
29 = 5.0 V
30 = 5.0 V
31 = 5.0 V
32 = 5.0 V

7605 TEA 6330

1 = 7.7 V
2 = 3.8 V
3 = GND
4 = 3.9 V
5 = 3.9 V
6 = 3.9 V
7 = 3.9 V
8 = 3.9 V
9 = 7.7 V
10 = GND
11 = 5.1 V SCL
12 = 5.1 V SDA
13 = 3.9 V
14 = 3.9 V
15 = 3.9 V
16 = 3.9 V
17 = 3.9 V
18 = 7.7 V
19 = 3.9 V
20 = 3.9 V

CHECK AND ALIGNMENT

For checking and adjusting see general procedures

Check	SK	◇	▭	Setting of controls	⌒	
Demodulated FM levels	FM	98 MHz 1 mV Δf=22.5 KHz f mod = 1 KHz	B			◇8 210 mV ± 40 mV
		98 MHz 1 mV Δf = 6.75 KHz f mod = 19 KHz				◇8 60 mV ± 10 mV
		98 MHz 1 mV Δf = 3.75 KHz f mod = 57 KHz				◇8 30 mV ± 10 mV
Demodulated AM level	MW	1053 KHz 1 mV 1 KHz, 30% AM	A			250 mV ≤ ◇7 ◇9 ≤ 350 mV
VC FM	FM		B	87.5 MHz		◇10 > 1.2 V
				108 MHz		◇10 < 5.5 V
VC AM	LW		A	144 KHz		◇10 > 1.2 V
	MW			1611 KHz		◇10 < 7.0 V
FM Mute	FM	93 MHz 1mV	B		◺	◇5 ◇6 0 dB (775 mV)
		No signal				◇5 ◇6 < -10 dB
0 Discriminator						◇4 3.4 V ± 400 mV
Reference oscillator frenquencies						◇1 61.5 MHz ± 3kHz ◇2 6 MHz ± 0.5% ◇3 6 MHz ± 0.5%

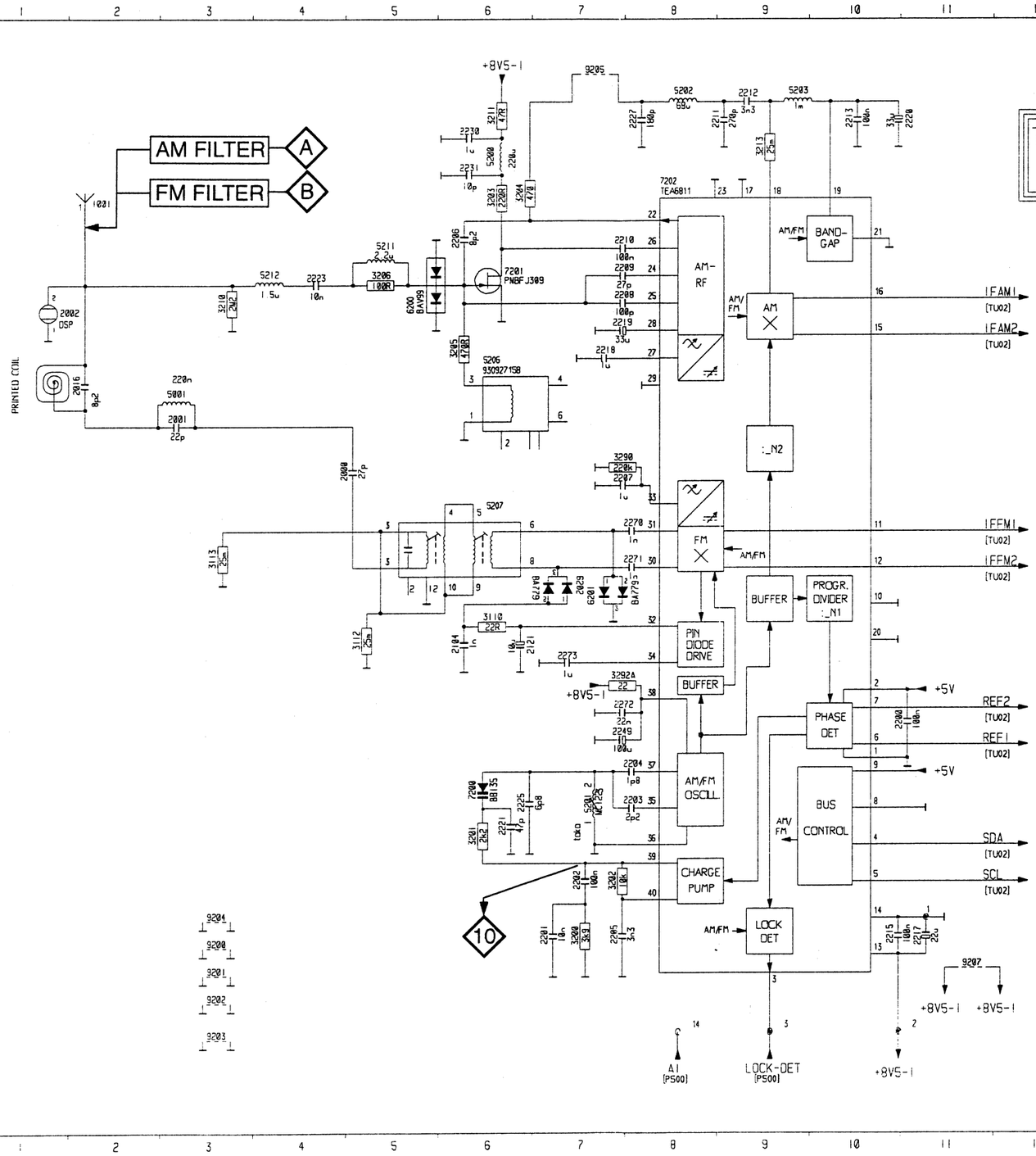
Alignment	SK	◇	▭	⌒	
	FM	88 MHz 20µV no AF signal	B	88 MHz	5201	◇10 1.5 V ± 100 mV
	FM	93 MHz <20 µV no AF signal	B	93 MHz	5209 5210	Max DC voltage on pin 50 of IC 7300
	FM	93 MHz 20µV no AF signal	B	93 MHz	5208	Max DC voltage on pin 50 of IC 7300
	AM	1053 KHz 70µV 1 kHz 30%	A	1053 KHz	5301	Max DC voltage on pin 50 of IC 7300
Audio limiting	FM	98 MHz 1 mV Δf=22.5 KHz f mod = 1 KHz	B		◺	◇5 ◇6 0 dB (775 mV)
		98 MHz 6 µV Δf=22.5 KHz f mod = 1 KHz			3321	◇5 ◇6 -3 dB

22DC352/00
22DC355/02

TUNER IC91 PART 1

[TU01]

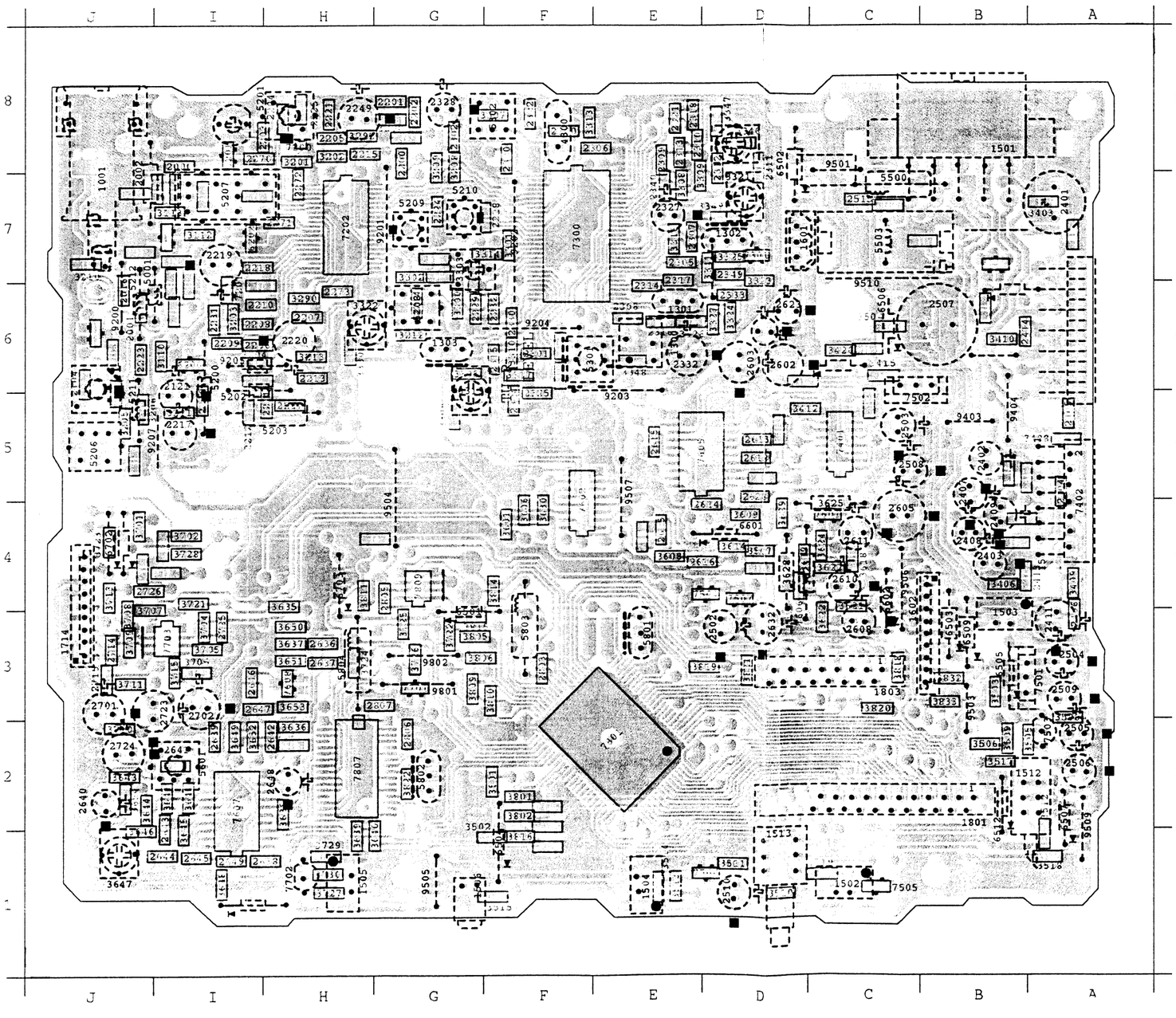
22DC352/00
22DC355/02



	1001	B 2
	2000	E 5
	2001	E 3
A	2002	D 2
	2016	D 2
	2104	G 6
	2121	G 7
	2200	H 11
	2201	J 7
B	2202	J 7
	2203	I 8
	2204	I 8
	2205	J 8
	2206	C 6
	2207	E 8
C	2208	C 8
	2209	C 8
	2210	C 8
	2211	A 9
	2212	A 9
	2213	A 10
D	2215	J 11
	2217	J 11
	2218	D 7
	2219	D 8
	2220	A 11
	2221	I 6
E	2223	C 4
	2225	I 7
	2227	A 8
	2230	B 6
	2231	B 6
	2249	H 8
F	2270	F 8
	2271	F 8
	2272	H 8
	2273	G 7
	3110	G 6
	3112	G 5
G	3113	F 3
	3200	J 7
	3201	I 6
	3202	J 7
	3203	B 6
	3204	B 6
H	3205	D 6
	3206	C 5
	3210	C 3
	3211	A 6
	3213	B 9
	3290	E 8
	3292A	H 8
I	5001	E 3
	5200	B 6
	5201	I 7
	5202	A 8
	5203	A 9
J	5206	D 6
	5207	F 6
	5211	C 5
	5212	C 4
	6200	D 5
	6201	G 7
K	6202	F 7
	7200	I 6
	7201	C 6
	7202	B 8
	9200	K 3
	9201	K 3
L	9202	K 3
	9203	L 3
	9204	J 3
	9205	A 7
	9207	K 11

1301 E 7	2332 E 6	2505 A 3	2611 C 5	3319 G 6	3623 D 4	5803 F 4	6512 B 2	9205 I 6	9509 A 2	1595 H 2	2507 B 7	5503 C 7
1302 D 7	2402 B 5	2506 A 2	2622 D 6	3321 D 8	3625 C 5	5804 H 3	6601 D 5	9207 I 6	9510 C 7	1506 G 1	3303 G 7	5601 I 3
1303 G 6	2403 B 4	2508 C 5	2623 D 7	3322 H 7	3628 D 4	6501 G 4	6602 C 4	9403 B 6	9801 G 3	1512 B 2	5201 H 8	7402 A 5
2121 I 6	2407 B 5	2509 A 3	2632 D 4	3647 J 2	5001 I 7	6502 D 8	6702 J 5	9404 B 6	9802 G 4	1513 D 2	5206 J 5	7501 A 3
2217 I 6	2408 B 5	2510 D 1	2640 J 2	4300 F 8	5200 I 6	6503 B 4	6703 H 4	9501 C 8	1001 J 8	1601 D 7	5207 I 8	7502 C 6
2219 I 7	2409 B 5	2602 D 6	2648 H 2	5801 E 4	5202 I 6	6504 F 2	9200 J 7	9503 B 3	1300 E 6	1602 B 4	5208 G 7	
2220 H 6	2411 A 4	2603 D 6	2701 J 3	5802 G 2	5203 H 6	6505 B 3	9201 G 7	9504 G 5	1501 B 8	1714 J 4	5209 J 7	
2249 H 8	2502 D 4	2605 C 5	2702 I 3	7503 A 3	5211 J 6	6506 C 7	9202 F 7	9505 G 1	1502 C 1	1801 B 2	5210 G 8	
2327 E 8	2503 C 6	2608 C 4	2723 J 3	7702 H 2	5212 J 7	6507 A 2	9203 E 6	9506 C 4	1503 B 4	1803 C 3	5301 F 6	
2328 G 8	2504 A 3	2610 C 4	2724 J 3	2002 J 8	5500 C 8	6509 B 4	9204 F 7	9507 E 5	1504 E 1	2401 A 8	5302 F 8	

22DC352/00
22DC355/02



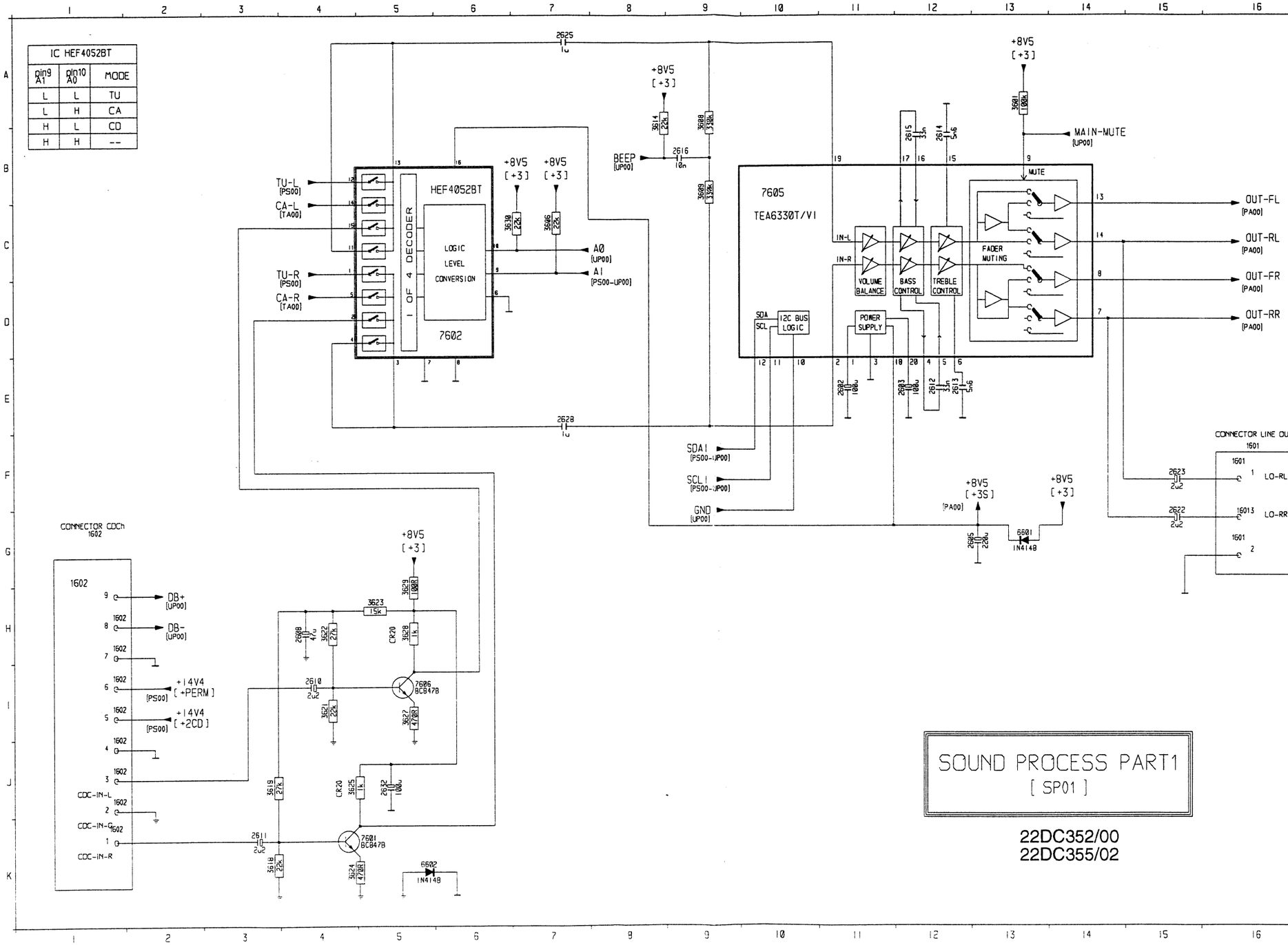
TUNER IC91 PART 2

[TU02]

22DC352/00
22DC355/02

1300	A 5	5208	C 2	2324	B 14
1301	C 2	5209	F 2	2325	B 15
1302	C 4	5210	F 4	2327	B 9
1303	D 2	5301	B 5	2328	J 17
2214	E 1	5302	B 7	2330	E 4
2224	G 3	7300	J 14	2332	H 17
2228	G 4	7301	C 3	2333	A 2
2229	E 1			2340	D 12
2232	E 1			2349	C 3
2300	J 16			3200	K 3
2301	D 4			3209	K 3
2302	J 16			3212	C 1
2305	D 4			3300	L 12
2306	H 16			3301	M 10
2307	B 6			3302	L 11
2308	B 6			3303	L 12
2309	B 11			3305	B 9
2310	B 11			3306	B 9
2311	B 10			3307	B 8
2312	A 11			3308	H 1
2313	B 12			3309	H 2
2314	E 16			3310	H 16
2315	E 17			3313	J 17
2316	F 16			3314	H 1
2317	G 16			3317	B 4
2318	L 13			3318	C 4
2320	L 9			3319	B 9
2321	L 9			3321	B 7
2322	L 8			3322	A 6
				3323	B 3
				3324	B 3
				3325	C 3
				3326	C 3
				3327	A 3
				3330	B 7
				3341	C 3
				3346	A 2
				3347	B 2
				3348	A 5
				3349	B 7
				4300	H 4

IC HEF4052BT		
pin9 A1	pin10 A0	MODE
L	L	TU
L	H	CA
H	L	CD
H	H	--



SOUND PROCESS PART1
[SP01]

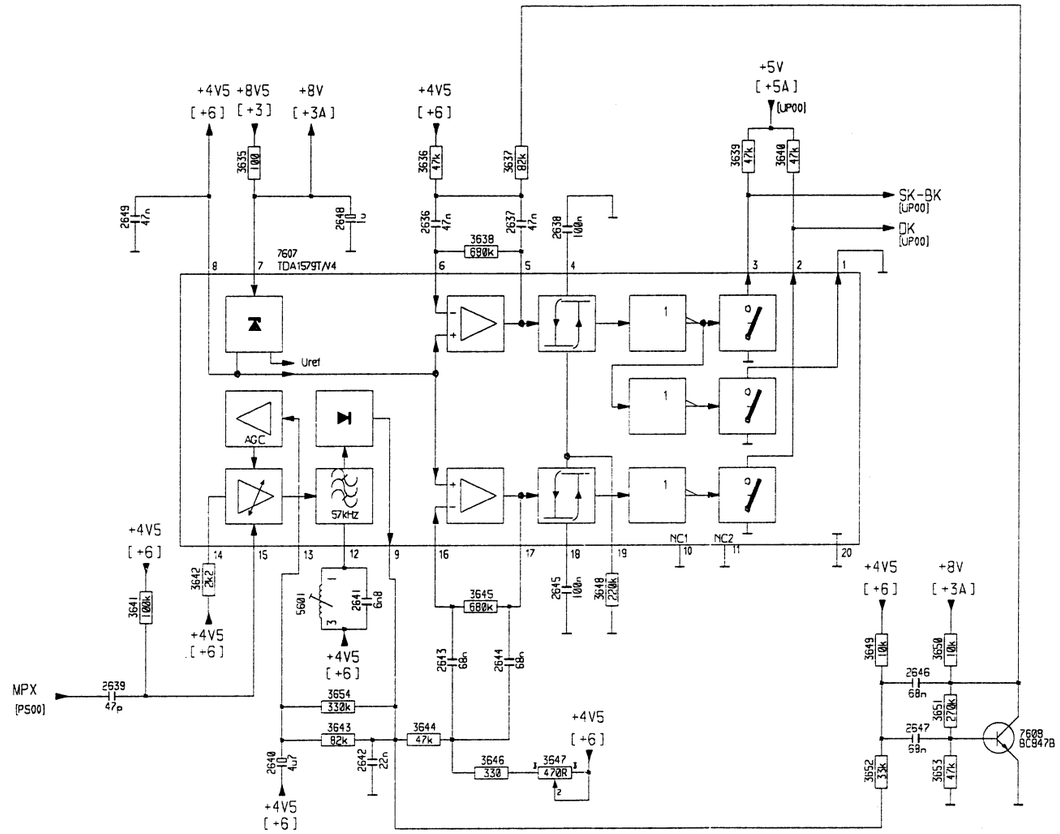
22DC352/00
22DC355/02

A	1601	F16
	1601	G16
	1601	G16
	1602	K 1
	1602	J 1
B	1602	J 1
	1602	J 1
	1602	I 1
	1602	I 1
	1602	H 1
	1602	H 1
	1602	G 1
	2602	E11
	2603	E12
	2605	G13
C	2608	H 4
	2610	I 4
	2611	K 3
	2612	E12
	2613	E12
D	2614	B12
	2615	B12
	2616	B 9
	2622	G15
	2623	F15
E	2625	A 7
	2628	E 7
	2632	J 5
	3601	A13
	3606	C 7
	3608	A 9
	3609	B 9
	3614	A 8
	3618	K 3
F	3619	J 3
	3621	I 4
	3622	H 4
	3623	H 5
	3624	K 4
	3625	J 4
G	3627	I 5
	3628	H 5
	3629	H 5
	3630	C 6
	6601	G13
H	6602	K 5
	7601	K 5
	7602	D 6
	7605	B10
	7606	I 5

SOUND PROCESS PART2

[SP02]

FOR 22DC355 ONLY



	2636	D 6
	2637	D 7
	2638	D 8
	2639	H 4
A	2640	I 5
	2641	G 6
	2642	I 6
	2643	H 7
	2644	H 7
	2645	G 8
	2646	H11
B	2647	H11
	2648	D 6
	2649	D 4
	3635	C 5
	3636	C 6
	3637	C 7
C	3638	D 7
	3639	C 9
	3640	C10
	3641	G 4
	3642	G 4
	3643	H 6
D	3644	H 6
	3645	G 7
	3646	I 7
	3647	I 8
	3648	G 8
E	3649	H10
	3650	H11
	3651	H11
	3652	I10
	3653	I11
	3654	H 5
F	5601	G 5
	7607	D 5
	7608	H12

POWER SUPPLY PART
[PS00]

22DC352/00
22DC355/02

CONNECTOR	PIN Nber	FUNCTION
1501	9	A4 = + PERM
	4	A6 = ANT ELEC
	10	A7 = + ACC
	5	A8 = GROUND

CONNECTOR 1501

+ELEC AERIAL

+ACC

-PERM

+14V4 [+1]

+14V4 [+2PA] [PA00]

+8V5 [+3]

+14V4 [+2CD] [SP01]

+14V4 [+2M] [TA00]

+5V [+5]

+5V [+4]

[+PERM] +14V4

HOLD [UP00]

RESET [UP00]

ON/OFF

FRONT

Signals corresponding between [TUNER IC91 TU01-TU02] and [POWER SUPPLY PS00]

Signals coming from Tuner IC91 [TU01-TU02]

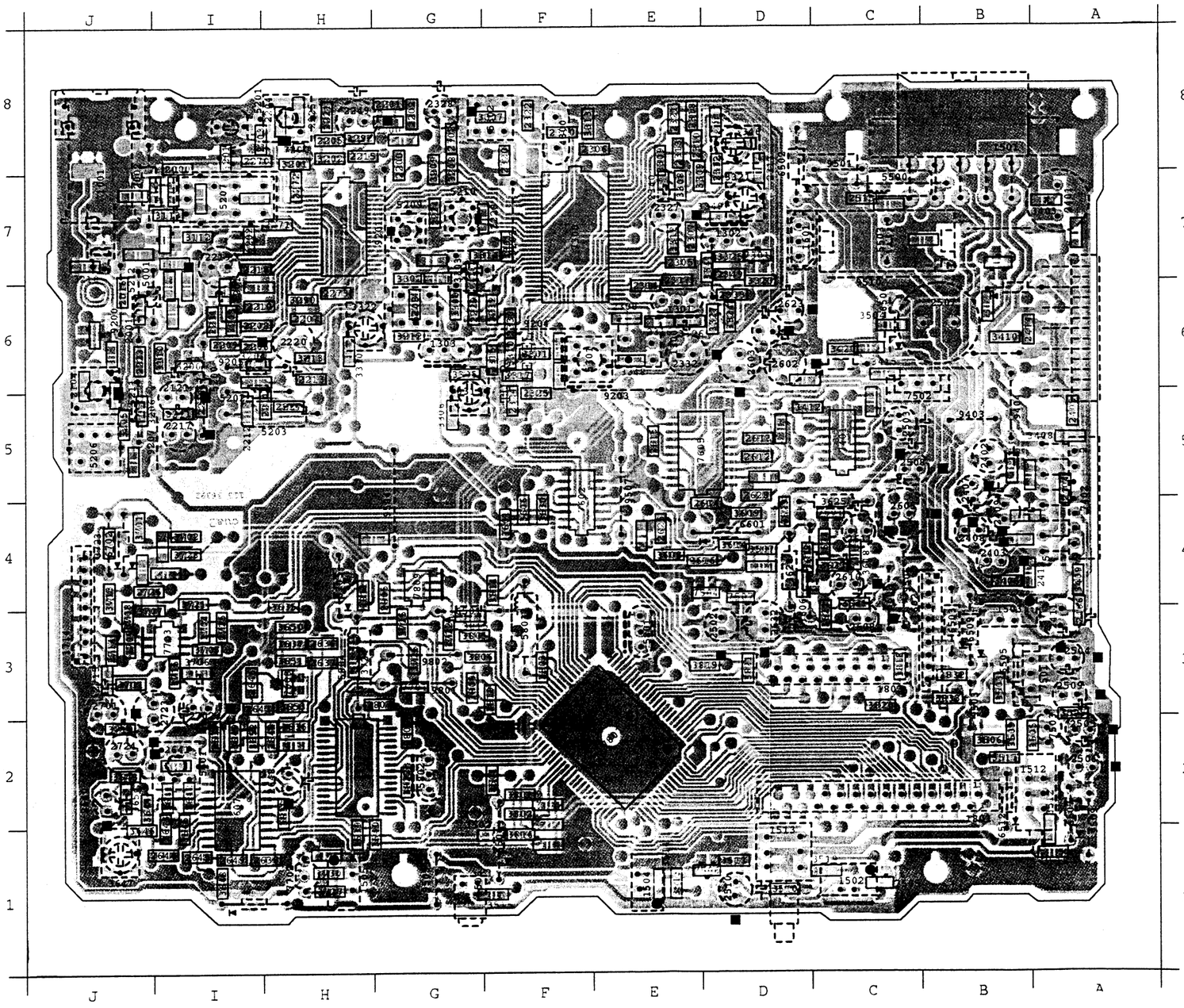
X001	1	GND
X001	2	+8V5-1 [TU02] [TU01]
X001	3	GND
X001	4	LOCK-DET [TU01]
X001	5	+5V [TU02] [TU01]
X001	6	Vref [TU02]
X001	7	TU-L [TU02]
X001	8	MPX-ROS [TU02]
X001	9	TU-R [TU02]
X001	10	LEVEL [TU02]
X001	11	GND
X001	12	+8V5-2 [TU02]
X001	13	I2C-SDA
X001	14	GND [TU02]
X001	15	I2C-SCL
X001	16	GND [TU02]
X001	17	A1 [TU02]
X001	18	

SDA I [SP01-UP00]
GND
SCL I [SP01-UP00]
A1 [SP01-UP00]
TU-L [SP01]
MPX [SP02]
TU-R [SP01]
+14V4 [+2PA] [PA00]

1501	F	2
1502	G	10
1503	E	10
1504	G	10
1505	G	11
1506	D	14
1506	D	14
1512	F	5
1513	F	6
2502	J	9
2503	C	9
2504	G	9
2505	I	7
2506	J	7
2507	F	3
2508	D	8
2509	H	8
2510	D	11
2515	J	3
3501	F	8
3502	F	8
3503	G	8
3504	D	8
3505	I	6
3506	J	8
3507	K	8
3508	I	8
3509	K	7
3510	C	12
3511	D	12
3512	B	10
3513	C	13
3514	D	13
3515	C	14
3516	D	3
3517	I	5
3518	C	11
3519	E	6
5500	I	3
5503	F	3
6501	F	9
6502	F	3
6503	I	3
6504	F	7
6505	H	8
6506	D	8
6507	J	6
6509	G	4
6512	I	6
7501	G	8
7502	C	8
7503	I	7
7504	J	9
7505	B	13
7506	D	12
7507	K	8
9503	E	7
9504	G	14
9505	F	11
9506	E	7
9507	F	14
9509	I	11
9510	F	4
X001	F	15

22DC352/00
22DC355/02

1301 E 7	2332 E 6	2505 A 3	2611 C 5	3319 G 6	3623 D 4	5803 F 4	6512 B 2	9205 I 6	9509 A 2	1505 H 2	2507 B 7	5503 C 7	
1302 D 7	2402 B 5	2506 A 2	2622 D 6	3321 D 8	3625 C 5	5804 H 3	6601 D 5	9207 I 6	9510 C 7	1506 G 1	3303 G 7	5601 I 3	
1303 G 6	2403 B 4	2508 C 5	2623 D 7	3322 H 7	3628 D 4	6501 G 4	6602 C 4	9403 B 6	9801 G 3	1512 B 2	5201 H 8	7402 A 5	
2121 I 6	2407 B 5	2509 A 3	2632 D 4	3647 J 2	5001 I 7	6502 D 8	6702 J 5	9404 B 6	9802 G 4	1513 D 2	5206 J 5	7501 A 3	
2217 I 6	2408 B 5	2510 D 1	2640 J 2	4300 F 8	5200 I 6	6503 B 4	6703 H 4	9501 C 8	1001 J 8	1601 D 7	5207 I 8	7502 C 6	
2219 I 7	2409 B 5	2602 D 6	2648 H 2	5801 E 4	5202 I 6	6504 F 2	9200 J 7	9503 B 3	1300 E 6	1602 B 4	5208 G 7		
2220 H 6	2411 A 4	2603 D 6	2701 J 3	5802 G 2	5203 H 6	6505 B 3	9201 G 7	9504 G 5	1501 B 8	1714 J 4	5209 G 7		
2249 H 8	2502 D 4	2605 C 5	2702 I 3	7503 A 3	5211 J 6	6506 C 7	9202 F 7	9505 G 1	1502 C 1	1801 B 2	5210 G 8		
2327 E 8	2503 C 6	2608 C 4	2723 J 3	7702 H 2	5212 J 7	6507 A 2	9203 E 6	9506 C 4	1503 B 4	1803 C 3	5301 F 6		
2328 G 8	2504 A 3	2610 C 4	2724 J 3	2002 J 8	5500 C 8	6509 B 4	9204 F 7	9507 E 5	1504 E 1	2401 A 8	5302 F 8		



2000 I 8	2639 I 3	3511 D 2	3832 B 3	
2001 J 7	2641 I 3	3512 A 2	3833 B 3	
2016 J 7	2642 H 3	3513 E 1	6200 I 6	
2104 J 6	2643 I 2	3514 E 1	6201 I 8	
2200 J 8	2644 I 2	3515 F 1	6202 I 7	
2201 J 8	2645 I 2	3517 B 3	7200 H 8	
2202 J 8	2646 I 3	3518 A 2	7201 I 7	
2203 H 8	2647 I 3	3519 C 2	7202 H 7	
2204 H 8	2649 I 2	3601 F 5	7300 F 7	
2205 H 8	2714 J 4	3606 F 5	7301 D 7	
2206 I 6	2715 J 3	3608 E 4	7401 C 5	
8 2207 H 7	2725 I 4	3609 D 5	7504 D 4	
2208 I 7	2726 J 4	3614 D 5	7505 C 1	
2209 I 6	2803 F 3	3618 C 4	7506 D 2	
2210 I 7	2805 G 4	3619 D 4	7507 D 4	
2211 H 6	2806 G 3	3621 C 4	7601 C 5	
2212 I 6	2807 G 3	3622 C 4	7602 F 5	
2213 H 6	3110 I 6	3624 C 5	7605 E 5	
2214 G 7	3112 I 7	3627 C 4	7606 D 4	
2215 H 8	3113 I 8	3629 D 5	7607 I 2	
7 2218 I 7	3200 G 8	3630 F 5	7608 H 3	
2221 H 8	3201 H 8	3635 H 4	7701 G 3	
2223 J 6	3202 H 8	3636 H 3	7703 I 4	
2224 G 8	3203 I 7	3637 H 4	7801 E 3	
2225 H 8	3204 I 6	3638 H 2	7807 H 2	
2227 H 6	3205 J 6	3639 H 2	7809 G 4	
2228 F 8	3206 J 6	3640 G 2		
2229 G 7	3208 G 8	3641 I 2		
6 2230 I 6	3209 G 8	3642 I 2		
2231 I 7	3210 G 7	3643 J 2		
2232 F 7	3211 I 6	3644 J 2		
2270 I 8	3212 J 6	3645 I 2		
2271 H 7	3213 H 8	3646 J 2		
2272 H 8	3250 H 7	3648 I 1		
2273 H 7	3282 H 8	3649 I 3		
5 2300 F 8	3301 G 7	3650 H 4		
2301 F 6	3301 F 7	3651 H 3		
2302 J 8	3302 J 7	3652 I 3		
2305 E 7	3305 J 6	3653 H 3		
2306 E 8	3306 G 6	3654 J 2		
2307 E 7	3307 F 8	3701 J 5		
2308 E 7	3308 E 8	3702 I 5		
2309 E 8	3309 E 8	3704 I 4		
4 2310 E 8	3310 F 6	3705 I 4		
2311 D 8	3313 F 8	3706 I 3		
2312 D 8	3314 F 7	3707 J 4		
2313 E 8	3317 F 6	3708 J 4		
2314 E 7	3318 E 7	3709 J 4		
2315 F 6	3323 D 7	3710 J 3		
2316 E 7	3324 D 7	3711 J 3		
3 2317 E 7	3325 D 7	3713 J 4		
2318 E 8	3326 E 7	3715 I 3		
2320 F 8	3327 D 7	3721 I 4		
2321 E 8	3330 H 6	3722 G 4		
2322 F 8	3341 D 7	3723 J 5		
2324 F 6	3346 D 8	3724 H 3		
2325 F 6	3347 D 8	3725 G 4		
2330 F 7	3348 E 6	3726 G 3		
2 2333 D 7	3349 D 8	3727 H 1		
2340 E 8	3403 A 8	3728 I 4		
2349 D 7	3406 B 4	3729 H 2		
2404 A 5	3408 A 5	3730 H 2		
2405 A 5	3410 A 4	3801 F 2		
2406 A 4	3411 B 5	3802 F 2		
2413 B 4	3412 D 5	3805 G 4		
2414 B 5	3425 I 5	3806 G 3		
2515 C 8	3426 I 6	3809 G 3		
1 2612 D 5	3501 F 2	3810 F 1		
2613 D 5	3502 F 5	3811 H 4		
2614 D 5	3503 B 8	3814 F 4		
2615 E 5	3504 C 7	3815 G 4		
2616 D 4	3505 B 3	3816 F 2		
2625 E 5	3506 B 3	3818 C 3		
2636 D 5	3507 D 1	3819 D 1		
2637 H 3	3508 A 5	3821 D 3		
2638 H 3	3509 D 1	3822 J 2		

MICRO CONTROLER PART

[UP00]

22DC352/00
22DC355/02

CONNECTOR LCD 1801

LCD DRIVER

78018

TMP47C920

GB VERSION

CPU | RAM | ROM | R8

POWER SUPPLY | SYSTEM CONTROLLER | WATCHDOG | CLOCK GENERATOR

HOLD [PS00]

RESET [PS00]

CST6.0MGM 5801

CONNECTOR KEYBOARD 1803

PA-MUTE [PA00]

SK-BK [SP02]

DK [SP02]

CA-TRACK [TA00]

CA-MUTE

CA-STOP

CA-PLAY

MAIN-MUTE [SP01]

A0 [SP01]

A1 [SP01-PS00]

BEEP [SP01]

+ : DC355 ONLY

□ : DC352 ONLY

7809 ST24C02A

MEMORY REGISTER | ADDRESS CTR | CONTROL LOGIC | REGISTER COMPARATOR | TEST

SCL [SP01]

SDA [SP01]

GND [SP01]

CST6.0WGM 5802

MSM6307GS 7807

SLAVE ADRESSE A0 A1 A2

PARALLEL DATA IN/OUT D0 D1 D2 D3 D4 D5 D6 D7

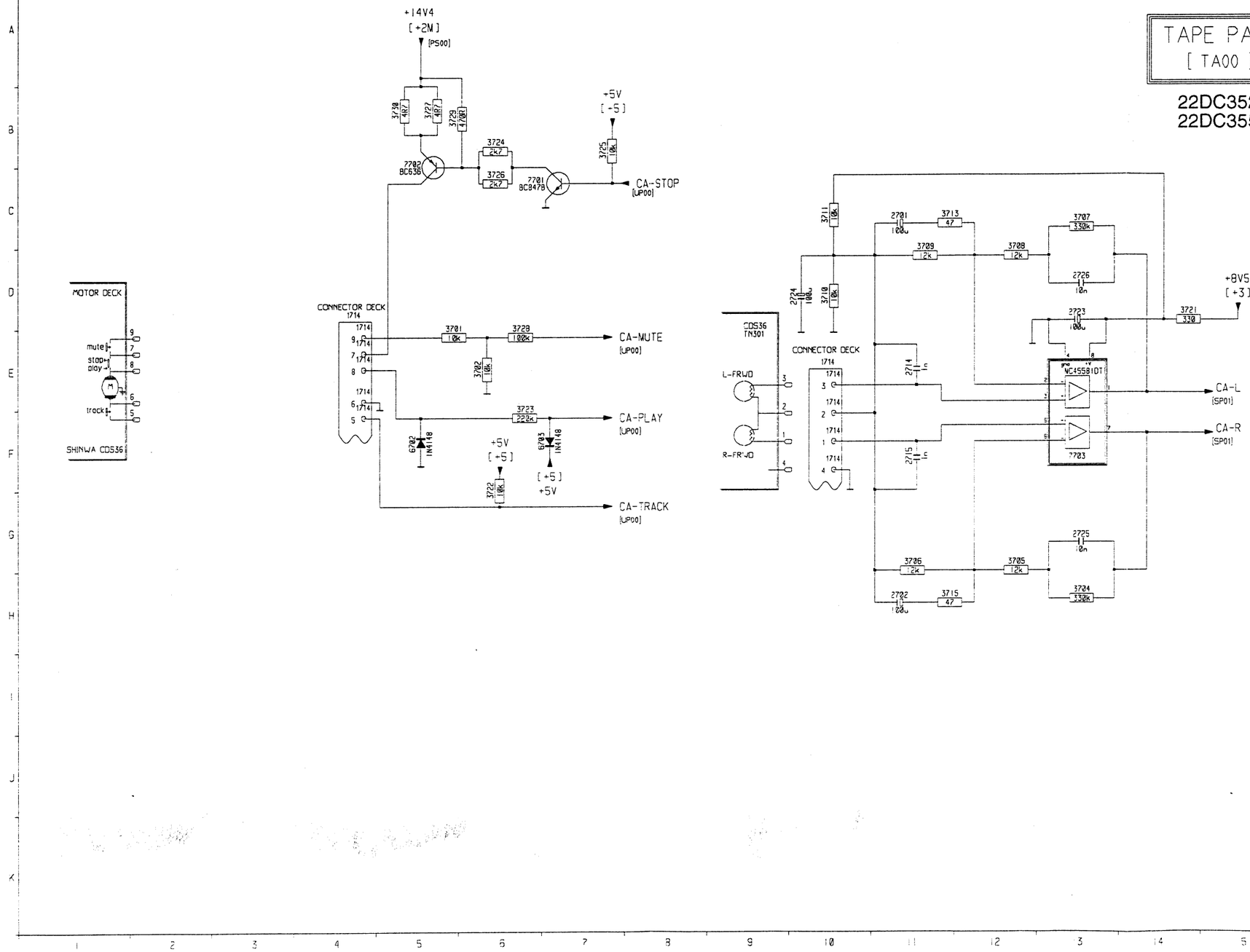
DB+ [SP01]

DB- [SP01]

1801	A	6
1803	F	6
2803	B	2
2805	E	3
2806	I	1
2807	K	5
3801	C	1
3802	C	1
3805	E	11
3806	E	11
3809	E	12
3810	E	12
3811	G	14
3814	E	16
3815	E	16
3816	F	9
3818	F	5
3819	G	5
3820	G	5
3821	G	5
3822	I	3
3832	J	15
3833	J	15
5801	D	2
5802	I	3
5803	A	2
5804	H	4
7801B	C	4
7807	K	3
7809	E	4
9801	J	1
9802	J	1

TAPE PART
[TA00]

22DC352/00
22DC355/02



1714 D 4
2701 C11
2702 H11
2714 E11
2715 F11

2723 D13
2724 D10
2725 G13
2726 D13
3701 E 5

3702 E 6
3704 H13
3705 G12
3706 G11
3707 C13

3708 D12
3709 D11
3710 D10
3711 C10
3713 C11

3715 H11
3721 D14
3722 F 6
3723 F 6
3724 B 6

3725 B 7
3726 C 6
3727 B 5
3728 E 6
3729 B 5

3730 B 5
6702 F 5
6703 F 7
7701 D 7
7702 B 5

7703 F13

POWER AMPLIFIER PART
[PA00]

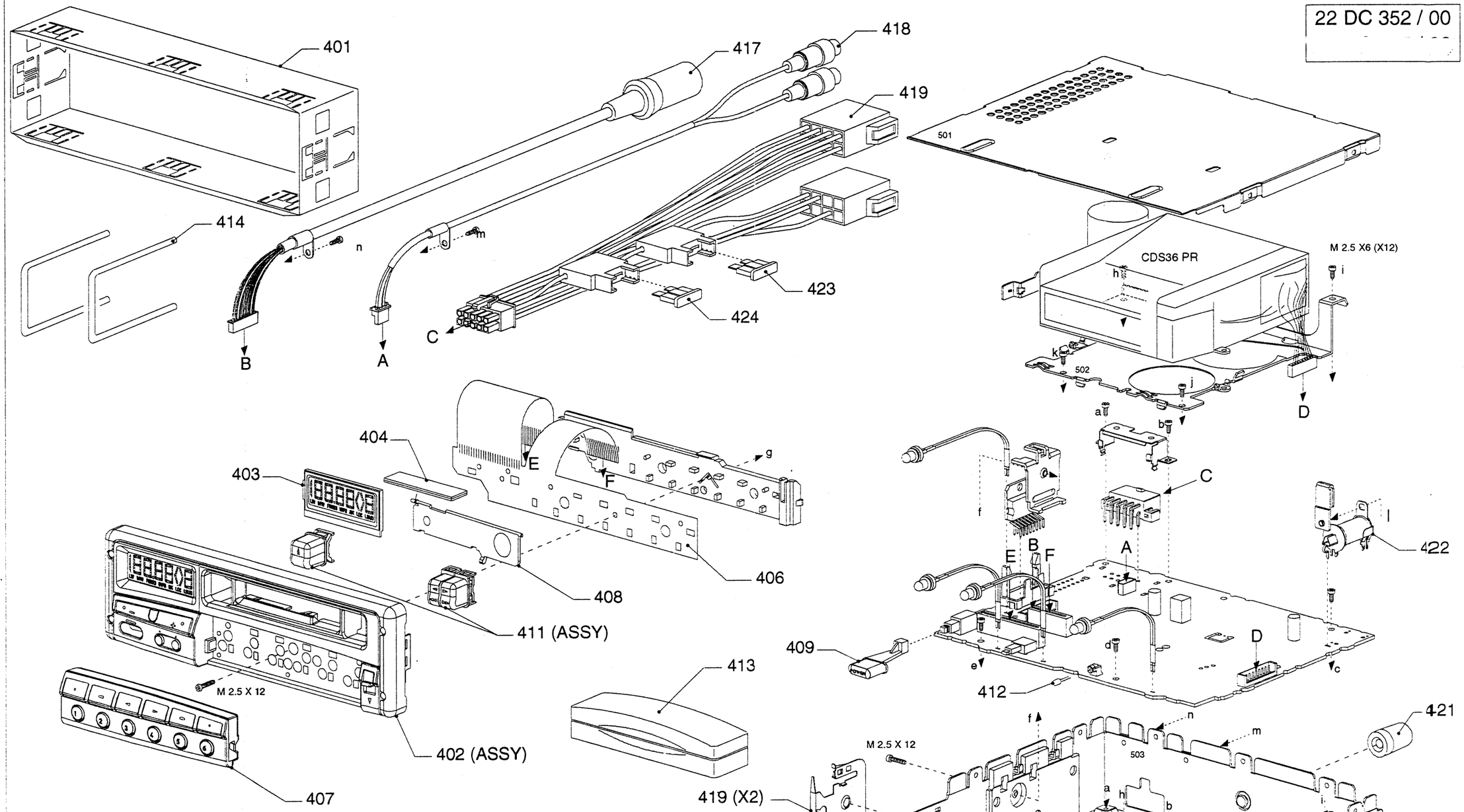
22DC352/00
22DC355/02

CONNECTOR	4x5W		TDA7374
	+	-	CHANEL
1501	1	2	5W FL
	3	2	5W FR
	7	6	5W RL
	7	8	5W RR

CONNECTOR	2x15W		TDA7374
	+	-	CHANEL
1501	1	6	15W FL
	3	9	15W FR

+9V5 [+3]
3415 22k
3420 1k
2409 47u
PA-MUTE [UP00]
2411 47u
OUT-FR [SP01]
2408
OUT-FL [SP01]
2407
OUT-RR [SP01]
2403
CUT-RL [SP01]
2402
+8V5 [+3S] [SP01]
HEF40521BT
1 OF 4 DECODER
LOGIC LEVEL CONVERSION
7401
TDA7374V
7402
9403
2404 1u 100n
9404
+14V4 [+1] [PS00]
CONNECTOR 1501
1501 5 FR
1501 4 FL
1501 2
1501 8 RR
1501 7
1501 6 RL
3406 4R7
2413 100n
3410 4R7
2414 100n
3409 4R7
2406 100n
3408 4R7
2405 100n
3412 100k
3403 2R2
2401 1000u
6
5

1501	G14	3406	C13
2401	J14		
2402	K 9	3408	I13
2403	G 9	3409	G13
2404	F12	3410	E13
		3412	J12
2405	I13	3415	A10
2406	G13		
2407	D10	3420	A11
2408	C10	7401	J 9
2409	B10	7402	H11
		9403	E12
2411	C11	9404	H12
2413	D13		
2414	E13		
3403	J13		



401	4822 443 30463	SLEEVE	413	4822 600 70757	CASE D.U.
402	4822 459 50831	FRONT PLATE ASSY	414	4822 404 20437	DEMOUNTING BRACKETS
403	4822 130 91318	L.C.D	416	4822 321 62352	CABLE POWER+HP
404	4822 265 31176	ZEBRA CONNECTOR	417	4822 321 62349	CABLE CD-CHANGER
406	4822 321 62348	FLEX-FOIL	418	4822 321 62351	CABLE LINE-OUT
407	4822 459 50832	DET-UNIT (355)	419	4822 492 71046	SPRING CLAMPING
407	4822 459 50834	DET-UNIT (352)	421	4822 532 11092	BUFFER MOUNTING
408	4822 443 41353	FLAP CASSETTE (355)	422	4822 267 30883	AERIAL BUSH ASSY
408	4822 443 64105	FLAP CASSETTE (352)	423	4822 071 25002	FUSE BLADE 5A
409	4822 410 63057	ON/OFF BUTTON	424	4822 071 22002	FUSE BLADE 2A
411	4822 410 63058	SET OF BUTTONS DECK			
412	4822 130 83612	BLINKING LED			

Miscellaneous

1300	4822 242 81503	SFP450H
1301	4822 242 73779	SFE10,7MS3-K18-A
1302	4822 242 73779	SFE10,7MS3-K18-A
1303	4822 242 73779	SFE10,7MS3-K18-A
1501	4822 265 41379	10P
1502	4822 134 41174	50MA 14V T1.25
1503	4822 134 41173	50MA 14V T1.25
1504	4822 134 41175	80MA 14V T1.25
1505	4822 134 41175	80MA 14V T1.25
1512	4822 276 13483	SWITCH
1513	4822 276 13484	SWITCH
1714	4822 265 41385	CONNECTOR 9P
1801	4822 267 60378	CONNECTOR 27P
1803	4822 267 50915	CONNECTOR 15P

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2000	5322 122 31946	27PF 10% 50V
2001	5322 122 32658	22PF 5% 50V
2002	4822 252 60125	DSP-201M-A21F
2016	5322 122 33244	8,2PF 5%NPO 50V
2104	5322 122 34123	1NF10%X7R 50V
2121	4822 124 41017	10UF 16V
2200	4822 122 33496	100NF10%X7R 63V
2201	5322 122 34098	10NF10%X7R 63V
2202	4822 122 33496	100NF10%X7R 63V
2203	5322 122 33063	2,2PF 5%NP0 50V
2204	5322 126 10343	1,8PF 5%NP0 63V
2205	5322 122 33446	3,3NF10%X7R 63V
2206	5322 122 33244	8,2PF 5%NPO 50V
2207	4822 126 11692	1UF
2208	5322 122 32531	100PF 5%NP0 50V
2209	5322 122 31946	27PF 10% 50V
2210	4822 122 33496	100NF10%X7R 63V
2211	4822 122 33216	270PF 5%NP0 50V
2212	5322 122 33446	3,3NF10%X7R 63V
2213	4822 122 33496	100NF10%X7R 63V
2214	5322 122 32654	22NF10%X7R 63V
2215	4822 122 33496	100NF10%X7R 63V
2217	4822 124 23279	22UF20% 16V
2218	4822 126 11692	1UF
2219	4822 124 80837	33UF20% 16V
2220	4822 124 23281	33UF20% 16V
2221	5322 122 32452	47PF 5%NP0 63V
2223	5322 122 34098	10NF10%X7R 63V
2224	5322 122 34098	10NF10%X7R 63V
2225	5322 122 32269	6,8PF 5% 50V
2227	4822 126 10326	180PF 5%NP0 63V
2228	5322 122 32287	4,7PF 5%NP0 50V
2229	5322 122 32448	10PF 5% 50V
2230	4822 126 11692	1UF
2231	5322 122 32448	10PF 5% 50V
2232	5322 122 32448	10PF 5% 50V
2249	4822 124 41584	100UF 20% 10V
2270	5322 122 34123	1NF10%X7R 50V
2271	5322 122 34123	1NF10%X7R 50V
2272	5322 122 32654	22NF10%X7R 63V
2273	4822 126 11692	1UF
2300	4822 126 11692	1UF
2301	5322 122 32654	22NF10%X7R 63V
2302	4822 122 33496	100NF10%X7R 63V

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2305	4822 122 33496	100NF10%X7R 63V
2306	4822 122 33496	100NF10%X7R 63V
2307	4822 122 33496	100NF10%X7R 63V
2308	4822 122 33496	100NF10%X7R 63V
2309	5322 122 34098	10NF10%X7R 63V
2310	5322 122 33446	3,3NF10%X7R 63V
2311	4822 126 12772	220NF10% X7R 25V
2312	4822 122 33514	68PF 5%NP0 50V
2313	4822 126 12772	220NF10% X7R 25V
2314	5322 122 31866	6,8NF10%X7R 63V
2315	4822 122 33496	100NF10%X7R 63V
2316	4822 126 12772	220NF10% X7R 25V
2317	5322 122 31866	6,8NF10%X7R 63V
2318	5322 122 32654	22NF10%X7R 63V
2320	4822 122 33496	100NF10%X7R 63V
2321	4822 122 33496	100NF10%X7R 63V
2322	4822 126 12772	220NF10% X7R 25V
2324	4822 126 12772	220NF10% X7R 25V
2325	5322 122 32654	22NF10%X7R 63V
2327	4822 124 23256	47UF 16V
2328	5322 124 41431	22UF20% 35V
2330	4822 122 33496	100NF10%X7R 63V
2332	4822 124 80837	33UF20% 16V
2333	5322 122 34098	10NF10%X7R 63V
2340	5322 122 33244	8,2PF 5%NPO 50V
2349	5322 122 34098	10NF10%X7R 63V
2401	4822 124 40201	1000UF20% 16V
2402	4822 124 40242	1UF20% 63V
2403	4822 124 40242	1UF20% 63V
2404	4822 122 33496	100NF10%X7R 63V
2405	4822 122 33496	100NF10%X7R 63V
2406	4822 122 33496	100NF10%X7R 63V
2407	4822 124 40242	1UF20% 63V
2408	4822 124 40242	1UF20% 63V
2409	4822 124 23256	47UF 16V
2411	4822 124 23256	47UF 16V
2413	4822 122 33496	100NF10%X7R 63V
2414	4822 122 33496	100NF10%X7R 63V
2502	4822 124 40244	2,2UF20% 63V
2503	5322 124 41431	22UF20% 35V
2504	5322 124 41431	22UF20% 35V
2505	5322 124 41431	22UF20% 35V
2506	4822 124 40248	10UF20% 63V
2507	4822 124 22412	2200UF 20% 16V
2508	5322 124 41431	22UF20% 35V
2509	4822 124 40248	10UF20% 63V
2510	5322 124 41431	22UF20% 35V
2515	5322 122 32531	100PF 5%NP0 50V
2602	4822 124 80453	100UF20% 10V
2603	4822 124 80453	100UF20% 10V
2605	4822 124 80836	220UF20% 10V
2608	4822 124 23256	47UF 16V
2610	4822 124 40244	2,2UF20% 63V
2611	4822 124 40244	2,2UF20% 63V
2612	4822 122 33342	33NF10%X7R 63V
2613	4822 122 32646	5,6NF10%X7R 50V
2614	4822 122 32646	5,6NF10%X7R 50V
2615	4822 122 33342	33NF10%X7R 63V
2616	5322 122 34098	10NF10%X7R 63V
2622	4822 124 23504	2.2UF20% 50V

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2623	4822 124 23504	2.2UF20% 50V
2625	4822 126 11692	1UF
2628	4822 126 11692	1UF
2632	4822 124 41584	100UF 20% 10V
2636	4822 122 32542	47NF10%X7R 63V
2637	4822 122 32542	47NF10%X7R 63V
2638	4822 122 33496	100NF10%X7R 63V
2639	5322 122 32452	47PF 5%NP0 63V
2640	4822 124 40246	4,7UF20% 63V
2641	5322 122 31866	6,8NF10%X7R 63V
2642	5322 122 32654	22NF10%X7R 63V
2643	4822 122 32891	68NF10%X7R 63V
2644	4822 122 32891	68NF10%X7R 63V
2645	4822 122 33496	100NF10%X7R 63V
2646	4822 122 32891	68NF10%X7R 63V
2647	4822 122 32891	68NF10%X7R 63V
2648	4822 124 23282	1UF20% 50V
2649	4822 122 32542	47NF10%X7R 63V
2701	4822 124 80453	100UF20% 10V
2702	4822 124 80453	100UF20% 10V
2714	5322 122 34123	1NF10%X7R 50V
2715	5322 122 34123	1NF10%X7R 50V
2723	4822 124 80453	100UF20% 10V
2724	4822 124 80453	100UF20% 10V
2725	5322 122 34098	10NF10%X7R 63V
2726	5322 122 34098	10NF10%X7R 63V
2803	5322 122 32654	22NF10%X7R 63V
2805	5322 122 32654	22NF10%X7R 63V
2806	4822 122 33496	100NF10%X7R 63V
2807	4822 122 33496	100NF10%X7R 63V

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3110	4822 051 20229	22R00 5% 0,1W
3112	4822 051 20008	0R00 JUMP. (0805)
3113	4822 051 20008	0R00 JUMP. (0805)
3200	4822 051 20392	3K90 5% 0,1W
3201	4822 051 20222	2K20 5% 0,1W
3202	4822 051 20103	10K00 5% 0,1W
3203	4822 051 20221	220R00 5% 0,1W
3204	4822 051 20471	470R00 5% 0,1W
3205	4822 051 20471	470R00 5% 0,1W
3206	4822 051 20101	100R00 5% 0,1W
3208	4822 051 20103	10K00 5% 0,1W
3209	4822 051 20103	10K00 5% 0,1W
3210	4822 051 20225	2M20 5% 0,1W
3211	4822 051 20479	47R00 5% 0,1W
3212	4822 051 20229	22R00 5% 0,1W
3213	4822 051 20008	0R00 JUMP. (0805)
3290	4822 051 20224	220K00 5% 0,1W
3292	4822 051 20229	22R00 5% 0,1W
3300	4822 051 20123	12K00 5% 0,1W
3301	4822 051 20335	3M30 5% 0,1W
3302	4822 051 20333	33K00 5% 0,1W
3303	4822 100 20166	10K 30%LIN 0,1W
3305	4822 051 20333	33K00 5% 0,1W
3306	4822 051 20333	33K00 5% 0,1W
3307	4822 051 20432	4K30 5% 0,1W
3308	4822 051 20224	220K00 5% 0,1W
3309	4822 051 20124	120K00 5% 0,1W
3310	4822 051 20684	680K00 5% 0,1W

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3313	4822 051 20124	120K00 5% 0,1W
3314	4822 051 20564	560K00 5% 0,1W
3317	4822 051 20273	27K00 5% 0,1W
3318	4822 051 20391	390R00 5% 0,1W
3319	4822 100 11163	100K 30%LIN 0,1W
3321	4822 100 11163	100K 30%LIN 0,1W
3322	4822 100 11163	100K 30%LIN 0,1W
3323	4822 051 20391	390R00 5% 0,1W
3324	4822 051 20272	2K70 5% 0,1W
3325	4822 051 20101	100R00 5% 0,1W
3326	4822 051 20102	1K00 5% 0,1W
3327	4822 051 20681	680R00 5% 0,1W
3330	4822 051 20104	100K00 5% 0,1W
3341	4822 051 20109	10R00 5% 0,1W
3346	4822 051 20473	47K00 5% 0,1W
3347	4822 051 20008	0R00 JUMP. (0805)
3348	4822 051 20681	680R00 5% 0,1W
3349	4822 051 20223	22K00 5% 0,1W
3403	4822 051 20222	2K20 5% 0,1W
3406	4822 051 20478	4R70 5% 0,1W
3408	4822 051 20478	4R70 5% 0,1W
3409	4822 051 20478	4R70 5% 0,1W
3410	4822 051 20478	4R70 5% 0,1W
3412	4822 051 20104	100K00 5% 0,1W
3415	4822 051 20223	22K00 5% 0,1W
3420	4822 051 20102	1K00 5% 0,1W
3501	4822 051 20104	100K00 5% 0,1W
3502	4822 051 20103	10K00 5% 0,1W
3503	4822 051 20222	2K20 5% 0,1W
3504	4822 051 20681	680R00 5% 0,1W
3505	4822 051 20222	2K20 5% 0,1W
3506	4822 051 20104	100K00 5% 0,1W
3507	4822 051 20103	10K00 5% 0,1W
3508	4822 051 20103	10K00 5% 0,1W
3509	4822 051 20473	47K00 5% 0,1W
3510	4822 051 20273	27K00 5% 0,1W
3511	4822 051 20123	12K00 5% 0,1W
3512	4822 051 20223	22K00 5% 0,1W
3513	4822 051 20123	12K00 5% 0,1W
3514	4822 051 20222	2K20 5% 0,1W
3515	4822 051 20222	2K20 5% 0,1W
3517	4822 051 20272	2K70 5% 0,1W
3518	4822 051 20334	330K00 5% 0,1W
3519	4822 051 20473	47K00 5% 0,1W
3601	4822 051 20104	100K00 5% 0,1W
3606	4822 051 20223	22K00 5% 0,1W
3608	4822 051 20334	330K00 5% 0,1W
3609	4822 051 20334	330K00 5% 0,1W
3614	4822 051 20223	22K00 5% 0,1W
3618	4822 051 20223	22K00 5% 0,1W
3619	4822 051 20273	27K00 5% 0,1W
3621	4822 051 20223	22K00 5% 0,1W
3622	4822 051 20273	27K00 5% 0,1W
3623	4822 116 52244	15K 5% 0,5W
3624	4822 051 20471	470R00 5% 0,1W
3625	4822 116 83863	1K 5% 0,5W
3627	4822 051 20471	470R00 5% 0,1W
3628	4822 116 83863	1K 5% 0,5W
3629	4822 051 20101	100R00 5% 0,1W
3630	4822 051 20223	22K00 5% 0,1W

3635	4822 051 20101	100R00 5% 0,1W
3636	4822 051 20473	47K00 5% 0,1W
3637	4822 051 20823	82K00 5% 0,1W
3638	4822 051 20684	680K00 5% 0,1W
3639	4822 051 20473	47K00 5% 0,1W
3640	4822 051 20473	47K00 5% 0,1W
3641	4822 051 20104	100K00 5% 0,1W
3642	4822 051 20222	2K20 5% 0,1W
3643	4822 051 20823	82K00 5% 0,1W
3644	4822 051 20473	47K00 5% 0,1W
3645	4822 051 20684	680K00 5% 0,1W
3646	4822 051 20331	330R00 5% 0,1W
3647	4822 100 11677	470R 30%LIN 0.2W
3648	4822 051 20224	220K00 5% 0,1W
3649	4822 051 20103	10K00 5% 0,1W
3650	4822 051 20103	10K00 5% 0,1W
3651	4822 051 20274	270K00 5% 0,1W
3652	4822 051 20333	33K00 5% 0,1W
3653	4822 051 20473	47K00 5% 0,1W
3654	4822 051 20334	330K00 5% 0,1W
3701	4822 051 20103	10K00 5% 0,1W
3702	4822 051 20103	10K00 5% 0,1W
3704	4822 051 20334	330K00 5% 0,1W
3705	4822 051 20123	12K00 5% 0,1W
3706	4822 051 20123	12K00 5% 0,1W
3707	4822 051 20334	330K00 5% 0,1W
3708	4822 051 20123	12K00 5% 0,1W
3709	4822 051 20123	12K00 5% 0,1W
3710	4822 051 20103	10K00 5% 0,1W
3711	4822 051 20103	10K00 5% 0,1W
3713	4822 051 20479	47R00 5% 0,1W
3715	4822 051 20479	47R00 5% 0,1W
3721	4822 051 20331	330R00 5% 0,1W
3722	4822 051 20103	10K00 5% 0,1W
3723	4822 051 20224	220K00 5% 0,1W
3724	4822 051 20272	2K70 5% 0,1W
3725	4822 051 20103	10K00 5% 0,1W
3726	4822 051 20272	2K70 5% 0,1W
3727	4822 051 20478	4R70 5% 0,1W
3728	4822 051 20104	100K00 5% 0,1W
3729	4822 051 20471	470R00 5% 0,1W
3730	4822 051 20478	4R70 5% 0,1W
3801	4822 051 20223	22K00 5% 0,1W
3802	4822 051 20223	22K00 5% 0,1W
3805	4822 051 20103	10K00 5% 0,1W
3806	4822 051 20103	10K00 5% 0,1W
3809	4822 051 20103	10K00 5% 0,1W
3810	4822 051 20103	10K00 5% 0,1W
3811	4822 051 20103	10K00 5% 0,1W
3814	4822 051 20103	10K00 5% 0,1W
3815	4822 051 20103	10K00 5% 0,1W
3816	4822 051 20223	22K00 5% 0,1W
3817	4822 051 20103	10K00 5% 0,1W
3818	4822 051 20104	100K00 5% 0,1W
3819	4822 051 20104	100K00 5% 0,1W
3820	4822 051 20104	100K00 5% 0,1W
3821	4822 051 20104	100K00 5% 0,1W
3822	4822 051 20008	0R00 JUMP. (0805)
3832	4822 051 20101	100R00 5% 0,1W
3833	4822 051 20229	22R00 5% 0,1W

4300	4822 242 81698	AF9192C-A (61,5MHZ)
5001	4822 156 21723	LAL 02 A 0U22 5%
5200	4822 157 63315	LAL02 220UH
5201	4822 157 71059	IND VAR MC 122 100MHz
5202	4822 152 20679	LAL02 68UH 10%
5203	4822 157 50975	LAL04 100UH 10%
5206	4822 157 71057	IND VAR 47000UH 6%
5207	4822 157 71058	FIL LC VAR 98M KZV-353
5208	4822 156 21722	IND VAR 7CGL 10.7MHZ
5209	4822 157 71055	IND VAR 5MM 5KM 72MHZ2
5210	4822 157 71055	IND VAR 5MM 5KM 72MHZ2
5211	4822 156 21721	LAL02 2U2 10%
5212	4822 156 21719	LAL02 1U5 10%
5301	4822 156 21724	IND VAR 7CGL 450KHz
5302	4822 157 71061	IND VAR 7MM 7P 10MHz7
5500	4822 157 53608	LAL04 10U 10%
5503	4822 157 70839	COIL ASSY
5601	4822 157 71056	IND VAR 7MM 7PD 57KHz2
5801	4822 242 81002	CST6,00MGW-TF01
5802	4822 242 81002	CST6,00MGW-TF01
5803	4822 157 50975	LAL04 1000UH 10%
5804	4822 157 50975	LAL04 1000UH 10%

6200	5322 130 34337	BAV99
6201	4822 130 83613	BA779
6202	4822 130 83613	BA779
6501	4822 130 30621	1N4148
6502	4822 130 80291	1N4002GP
6503	4822 130 80291	1N4002GP
6504	4822 130 34173	BZX79-C5V6
6505	4822 130 34173	BZX79-C5V6
6506	4822 130 30862	BZX79-C9V1
6507	4822 130 34173	BZX79-C5V6
6509	4822 130 80291	1N4002GP
6512	4822 130 30621	1N4148
6601	4822 130 30621	1N4148
6602	4822 130 30621	1N4148
6702	4822 130 30621	1N4148
6703	4822 130 30621	1N4148

7200	4822 130 83614	BB135
7201	4822 130 63534	PMBFJ309
7202	4822 209 33168	TEA6811V/C2/R1
7300	4822 209 33167	TEA6821T/V2
7301	4822 130 60887	BF840
7401	5322 209 11102	HEF4052BT
7402	4822 209 31132	TDA7374V
7501	4822 130 62837	ON4694
7502	4822 130 62837	ON4694
7503	4822 130 44257	BC547
7504	4822 130 60511	BC847B
7505	4822 130 60511	BC847B
7506	4822 130 60511	BC847B
7507	4822 130 60511	BC847B
7601	4822 130 60511	BC847B
7602	5322 209 11102	HEF4052BT
7605	4822 209 31979	TEA6330T/V1
7606	4822 130 60511	BC847B

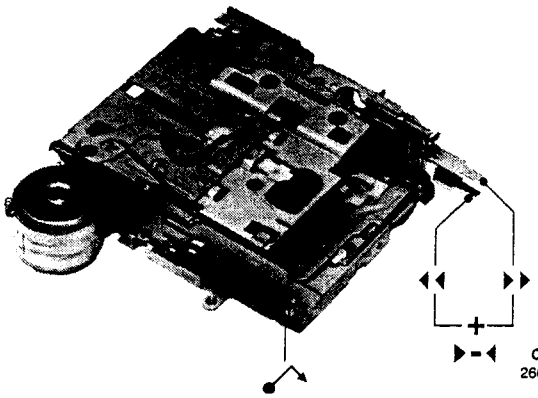
22DC352/00 ≥ 2DC355/02

7607	4822 209 31007	TDA1579T/V4
7608	4822 130 60511	BC847B
7701	4822 130 60511	BC847B
7702	4822 130 44283	BC636
7703	4822 209 33162	MC4558IDT
7801	4822 209 33159	TMP47C820F/N971
7807	4822 209 32743	MSM6307GS
7809	5322 209 31723	ST24C02AM6

22DC352/00 22DC355/02

Car cassette deck CDS-36MH3

Service
Service
Service



CAR00006A
26600009/011
161292

ServiceManual

12 V

(GB) TECHNICAL DATA

Operating voltage	: 10.5-16VDC (nom. 13.2VDC)
Tape speed	: 4.76cm/sec ± 2%
Wow & flutter	: ≤ 0.35% RMS
Crosstalk suppression	: > 35dB
Fast wind time	: < 170 secs (C-60)
Number of tracks	: 2x2

(NL) TECHNISCHE GEGEVENS

Werkspanning	: 10.5-16VDC (nom. 13.2VDC)
Bandsnelheid	: 4,76cm/sec ± 2%
Wow & flutter	: ≤ 0,35% RMS
Overspraak demping	: > 35dB
Omspoeltijd	: < 170 sec (C-60)
Aantal sporen	: 2x2

(F) CARACTERISTIQUES TECHNIQUES

Tension de fonctionnement	: 10.5-16VDC (nom. 13.2VDC)
Vitesse de bande	: 4,76cm/sec ± 2%
Pleurage & scintillement	: ≤ 0,35% RMS
Assourdissement de diaphonie	: > 35dB
Temps de bobinagerapide	: < 170 sec (C-60)
Nombre de pistes	: 2x2

(D) TECHNISCHE DATEN

Betriebsspannung	: 10.5-16VDC (nom. 13.2VDC)
Bandgeschwindigkeit	: 4,76cm/s ± 2%
Gleichlaufschwankungen	: ≤ 0,35% RMS
Uebersprach-Dämpfung	: > 35dB
Umspuldauer	: < 170 s (C-60)
Spurenzahl	: 2x2

(I) DATI TECNICI

Tensione di lavoro	: 10.5-16VDC (nom. 13.2VDC)
Velocità di trascinamento	: 4,76cm/sec ± 2%
Wow & flutter	: ≤ 0,35% RMS
Assordamento della diafonia	: > 35dB
Durata di avvolgimento	: < 170 sec (C-60)
Numero di piste	: 2x2

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(GB) MAINTENANCE

The cassette mechanism requires periodic cleaning,as well as periodic lubrication of the principal points.

1. Cleaning with alcohol or spirit
- Playback head
- Capstan & pressure roller
- Belts & pulleys

To clean head, pressure roller and capstan, it is also possible to use drop-in cassette SBC114-4822 389 20035.

2. Lubrication
- See exploded view.

(NL) ONDERHOUD

Het cassette mechanisme moet periodiek schoongemaakt en op de belangrijkste punten gesmeerd worden.

1. Schoonmaken met alcohol of spiritus
- Weergeefkop
- Toonas & drukrol
- Snaren & poelies

Voor het reinigen van kop, drukrol en toonas kan ook "drop-in"-cassette SBC114-4822 389 20035 worden gebruikt.

2. Smering
- Zie exploded view.

(F) MAINTENANCE

Le mécanisme de cassette doit être nettoyé réguilièrement et graissé a ses points cardinaux.

1. Nettoyage à l'alcool ou à l'alcool éthylique
- Tête de reproduction
- Cabestan & galet-presseur
- Courroies & poulies

Pour ce qui est du nettoyage de la tête, du galet-presseur et du cabestan on pourra également utiliser la cassette "drop-in" SBC114-4822 389 20035.

2. Lubrification
- Voir vue éclatée.

(D) WARTUNG

Der Cassettenteil soll in regelmässigen Zeitabständen gereinigt und an den wichtigsten Stellen geschmiert werden.

1. Reinigen mit Alkohol oder Spiritus
- Widergabekopf
- Tonwelle & Andruckrolle
- Pesen & Seilrollen

Zum Reinigen von Kopf, Andruckrolle und Tonwelle kann auch die "drop-in"-Cassette SBC114-4822 389 20035 benutzt werden.

2. Schmierung
- Siehe Explosionsansicht.

(I) MANUTENZIONE

La meccanica del registratore richiede pulizie periodiche,
come pure periodiche lubrificazioni dei punti principali.

1. Pulizia con alcool o spirito
- Testina di riproduzione
- Capstan & rullo pressore
- Cinghie & puleggie

Per la pulizia della testina, del rullo pressore e del capstan si può usare la cassetta "drop-in" SBC114-4822 389 20035.

2. Lubrificazione
- Vedere esploso.

(GB) ADJUSTMENTS AND CHECKS

Equipment required:
- Universal test cassette SBC419 4822 397 30069
- Universal test cassette SBC420 4822 397 30071
- Friction test cassette 811/CTM 4822 395 30054
- Spring scale 50-500g 4822 395 80028
- Wow & flutter meter
- AC millivoltmeters

1. Azimuth (Fig. 1)

Azimuth alignment should be carried out on a complete car radio; proceed as follows:
- Connect the millivoltmeters to the loudspeaker outputs.
- Insert test cassette SBC419 (or SBC420), select NOR (normal play) and play the 10kHz signal.
- Adjust Azimuth screw "A" for equal and maximum output voltage reading for both RH and LH channel.
- Switch to REV (reverse play) and play the 10kHz signal.
- Repeat the adjustment with screw "B"

2. Friction clutch 55
- Insert friction test cassette 811/CTM (NOR and REV).
- Play take-up torque should be 35 - 75g/cm.
- Fast wind torque should be 40 - 150g/cm.
- If the torque is not correct, replace clutch 55.

3. Wow & flutter/tape speed (Fig. 1)

This check is carried out on an complete car radio; proceed as follows:
- Connect the wow & flutter meter to the LS outputs
- Insert test cassette SBC419 (or SBC420) and play the 3150Hz signal
- The wow & flutter value should be 0.35%
- Tape speed should be 4.76cm/sec. 2%
- The tape speed can be adjusted with screw "C"

In case of an excessive wow & flutter value, check following parts for correct functioning:
- motor 56
- pressuer rollers 62, 84
- belts 63, 93
- friction clutches 55
- flywheels 92, 94
- pulley 71

(NL) INSTELLINGEN EN CONTROLES

Benodigde meetinstrumenten:
- Universele testcassette SBC419 4822 397 30069
- Universele testcassette SBC420 4822 397 30071
- Frictie testcassette 811/CTM 4822 395 30054
- Veerdrukmeter 50-500g 4822 395 80028
- Wow & flutter meter
- AC millivoltmeters

1. Azimuth (fig. 1)
De Azimuth instelling dient te geschieden bij de komplete autoradio en wel als volgt:
- Sluit de millivoltmeters aan op de LS-uitgangen.
- Breng testcassette SBC419 (of SBC420) in, kies NOR (normaal afspelen) en geef het 10kHz-signaal weer.
- Stel met schroef "A" de uitgangsspanning zo in, dat deze voor zowel linker- als rechterkanaal gelijk en maximaal is.
- Schakel over naar REV (omgekeerd afspelen) en geef het 10kHz-signaal weer.
- Herhaal de instelling met schroef "B".

2. Frictie 55
- Breng testcassette 811/CTM in (NOR en REV).
- De afspeelfrictie moet 35 - 75g/cm zijn.
- De snelspoelfrictie moet 40 - 150g/cm zijn.
- Indien de waarde niet juist is moet frictie 55 worden vervangen.

3. Wow & flutter/bandsnelheid (fig. 1)
Kontrole moet worden gedaan bij een komplete autoradio en wel als volgt:
- Sluit wow & flutter meter aan op de LS-uitgangen.
- Breng testcassette SBC419 (of SBC420) in en geef het 3150Hz-signaal weer.
- De jengel moet 0,35% zijn.
- De bandsnelheid moet 4,76cm/sec 2% zijn.
- De snelheid is instelbaar met schroef "C".

Bij een buitensporige waarde moeten de volgende onderdelen op hun juiste werking worden gekontroleerd:
- Motor 56
- Drukrollen 62, 84
- Snaren 63, 93
- Fricties 55
- Vliegwielen 92, 94
- Poelie 71

(F) REGLAGES ET CONTROLES

Instruments requis
- Cassette d'essai universelle SBC419 4822 397 30069
- Cassette d'essai universelle SBC420 4822 397 30071
- Cassette d'essai de friction 811/CTM 4822 395 30054
- Dynamomètre 50-500g 4822 395 80028
- Instrument du pleurage & scintillement
- Millivoltmètre en alternatif

1. L'azimuth (fig. 1)
Le réglage de l'azimuth devra être effectué lorsque l'auto-radio est au complet; procéder comme suit:
- Brancher les millivoltmètres sur les sorties h-p.
- Insérer la cassette d'essai SBC419 (ou SBC420), sélectionner NOR (défilement normal) et reproduire le signal de 10kHz.
- Régler la tension de sortie à l'aide de la vis "A" de façon qu'elle soit égale et au max. pour le canal de gauche tout comme celui de droite.
- Sélectionner REV (défilement inversé) et reproduire le signal de 10kHz.
- Répéter le réglage à l'aide de la vis "B".

2. Friction 55
- Introduire la cassette d'essai 811/CTM (NOR et REV).
- La friction de défilement doit être 35 - 75g/cm.
- La friction au bobinage rapide doit être 40 - 150g/cm.
- Si la valeur est inexacte, remplacer la friction 55.

3. Pleurage et scintillement/vitesse de bande (fig. 1)
Le contrôle devra être effectué lorsque l'auto-radio est au complet; proceder comme suit:
- Brancher l'instrument du pleurage sur les sorties h-p.
- Introduire la cassette d'essai SBC419 (ou SBC420) et reproduire le signal de 3150Hz.
- La valeur de pleurage doit être 0,35%.
- La vitesse de bande doit être 4,76cm/sec 2% .
- La vitesse est réglable avec vis "C".

Si le taux de pleurage est dépassé, il faut vérifier le fonctionnement des composants suivants:
- moteur 56
- galets presseur 62, 84
- courroies 63, 93
- couple de friction 55
- volants 92, 94
- poulie 71

(D) EINSTELLUNGEN UND KONTROLLEN

Benötigte Messgeräte:

- Universal-Testcassette SBC419	4822 397 30069
- Universal-Testcassette SBC420	4822 397 30071
- Friktionstestcassette 811/CTM	4822 395 30054
- Federwaage 50-500p	4822 395 80028

- Gleichlaufanalysator
- Wechselspannungs-Millivoltmeter

1. Azimuth (Bild 1)
Die Azimutheinstellung soll mit dem kompletten Autoradio stattfinden und zwar wie folgt:
- Millivoltmeter an die Lautsprecherausgänge schalten.
- Testcassette SBC419 (oder SBC420) einlegen, NOR (normal spielen) wählen und das 10kHz-Signal wiedergeben.
- Mit Schraube "A" die Ausgangsspannung so einstellen, dass sie für sowohl den linken als auch den rechten Kanal gleich ist und den Höchstwert aufweist.
- Auf REV (umgekehrt spielen) schalten und das 10kHz-Signal wiedergeben.
- Die Einstellung mit Schraube "B" wiederholen.

2. Reibkupplung 55
- Friktionscassette 811/CTM einlegen (NOR und REV).
- Die VL-Friktion soll 35 - 75p/cm sein.
- Die SVL-Friktion soll 40 - 150p/cm sein.
- Falls der Wert nicht richtig ist, muss Friktion 55 ersetzt werden.

3. Gleichlaufschwankungen/Bandgeschwindigkeit (Bild 1)
Die Kontrolle soll mit dem kompletten Autoradio wie folgt vorgenommen werden:
- Gleichlaufanalysator an die LS-Ausgänge schalten.
- Testcassette SBC419 (oder SBC420) einlegen und das 3150Hz-Signal wiedergeben.
- Der Jaulwert soll 0,35% sein.
- Die Bandgeschwindigkeit soll 4,76cm/s 2% sein.
- Die Geschwindigkeit ist einstellbar mit Schraube "C".

Bei einem übermässigen Jaulwert folgende Teile auf ihr richtiges Funktionieren kontrollieren:
- Motor 56
- Andruckrollen 62, 84
- Pesen 63, 93
- Friktion 55
- Schwungräder 92, 94
- Seilrad 71

(I) REGOLAZIONI E CONTROLLI

Strumenti richiesti:

- Cassetta test universale SBC419	4822 397 30069
- Cassetta test universale SBC420	4822 397 30071
- Cassetta test per la frizione 811/CTM	4822 395 30054
- Dinamometro 50-500gr	4822 395 80028

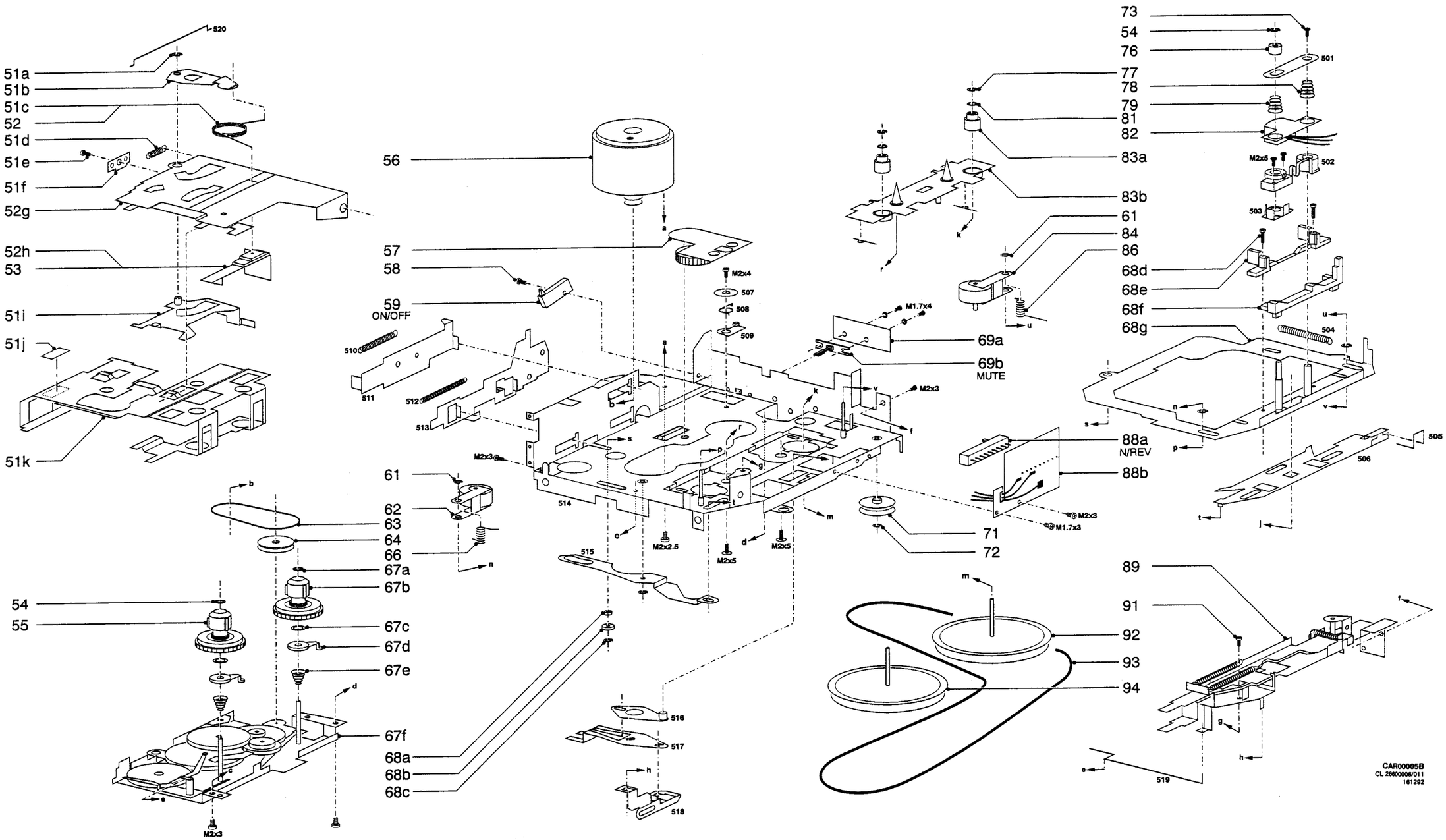
- Strumento wow & flutter
- Millivoltmetro AC

1. Azimuth (fig. 1)
La regolazione dell'azimuth deve essere eseguito quando l'autoradio è completa e ciò nel seguento modo:
- Collegare un mV-metro all'uscita per altoparlante.
- Inserire cassetta test SBC419 (o SBC420), selezionate NOR ("normal play") e riprodurre il segnale a 10kHz.
- Ruotare la vite "A" finchè la tensione letta per entrambi i canali sia la più elevata.
- Selezionate REV ("reverse play") e riprodurre il segnale a 10kHz.
- Selezionare la funzione Reverse e ripetere la taratura dell'azimuth utilizzando la vite "B".

2. Forza della frizione 55
- Inserire la cassetta 811/CTM (NOR e REV).
- La forza in Play deve essere 35 - 75gr/cm, in avvolgimento veloce 40 - 150gr/cm ra 40 - 150gr/cm.
- Se la forza non è corretta sostituire la frizione 55.

3. Wow e flutter/velocità del nastro (fig. 1)
Questo controllo deve essere eseguito quando l'autoradio è completa e ciò in maniera seguente:
- Collegare il misatore di Wow e flutter all'uscita per altoparlante.
- Inserire la cassetta test SBC419 (o SBC420) e riprodurre il segnale a 3150Hz.
- Il valore di Wow e flutter deve essere 0,35%.
- La velocità deve essere 4,76cm/sec 2%.
- La velocità può essere regolato con la vita "C".

Nel caso ci sia un valore eccessivo di Wow e flutter, bisogna controllare le seguenti parti se funzionano in modo corretto:
- Motore 56
- Rullo pressore 62, 84
- Cinghia di trascinamento 63, 93
- Frizione 55
- Volano 92, 94
- Puleggia 71



51	4822 256 91894	Cassette holder (compl.)
52	4822 492 42601	Torsion spring
53	4822 403 53313	Cassette guide
54	4822 532 51953	Washer 1.6x0.25
55	4822 528 10845	Carrier (compl.)
56	4822 361 30393	Motor
57	4822 522 33228	Idler arm (compl.)
58	4822 502 13967	Screw M1.7x6
59	4822 277 21603	On/off switch
61	4822 532 11631	Ret. ring 1.5
62	4822 528 81469	Pressure roller, REV
63	4822 358 31182	Belt, small
64	4822 522 33229	Pulley gear
66	4822 492 42599	Torsion spring, REV
67	4822 528 10862	Gear unit
68	4822 459 80764	Head support
69	4822 278 90722	Mute switch (with pcb)
71	4822 528 81468	Pulley
72	4822 532 51952	Washer 1.2x0.25
73	4822 502 13969	Screw fix head R, M2x4
76	4822 532 21456	Bushing for head
77	4822 530 70447	Ret. ring 1.6x3.2
78	4822 492 52301	Spring for head, R
79	4822 492 52302	Spring for head, L
81	4822 532 51955	Washer 2.1x3.5
82	4822 249 30183	Playback head
83	4822 466 82998	Bearing plate
84	4822 528 81471	Pressure roller, NOR
86	4822 492 42598	Torsion spring, NOR
88	4822 277 21655	NOR/REV switch (with pcb)
89	4822 404 21254	Lever unit, FW/FRW
91	4822 502 13968	Screw M2x4
92	4822 528 60395	Flywheel, NOR
93	4822 358 31181	Belt, large
94	4822 528 60406	Flywheel, REV
	4822 701 12727	Deck complete CDS-36MH3

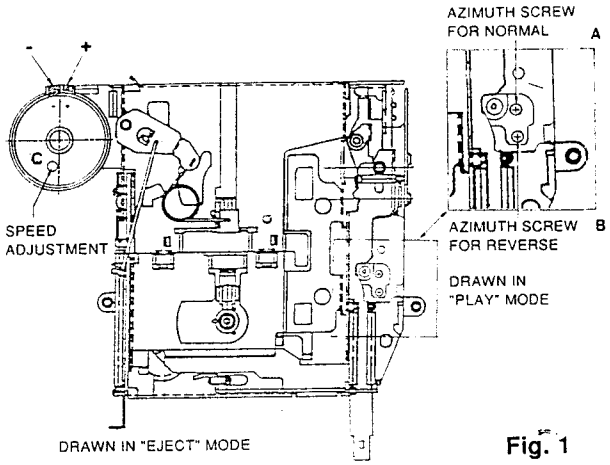


Fig. 1

CASSETTE HOLDER 51

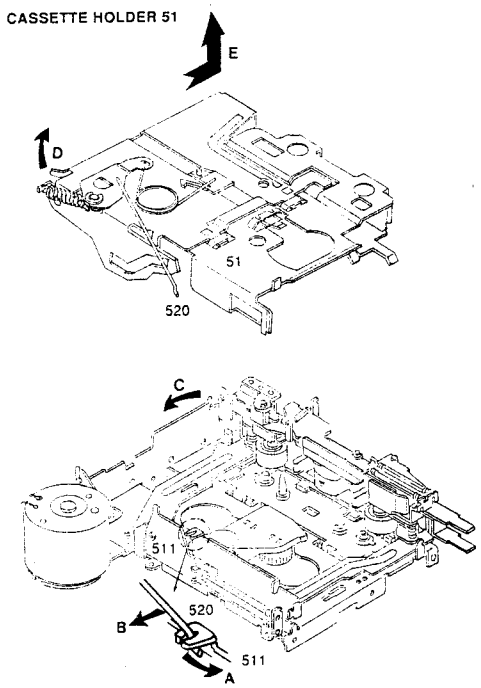


Fig. 2

GEAR UNIT 67

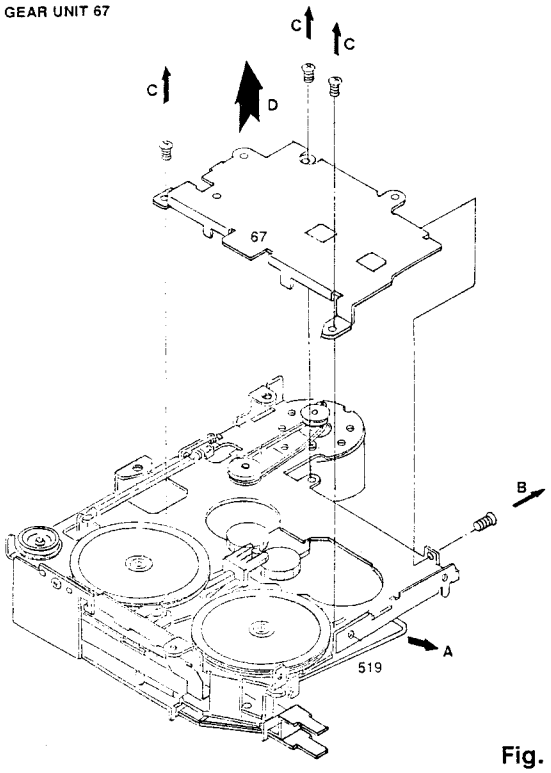


Fig. 3

LEVER UNIT 89, PRESSURE ROLLERS 62,84, HEAD 82

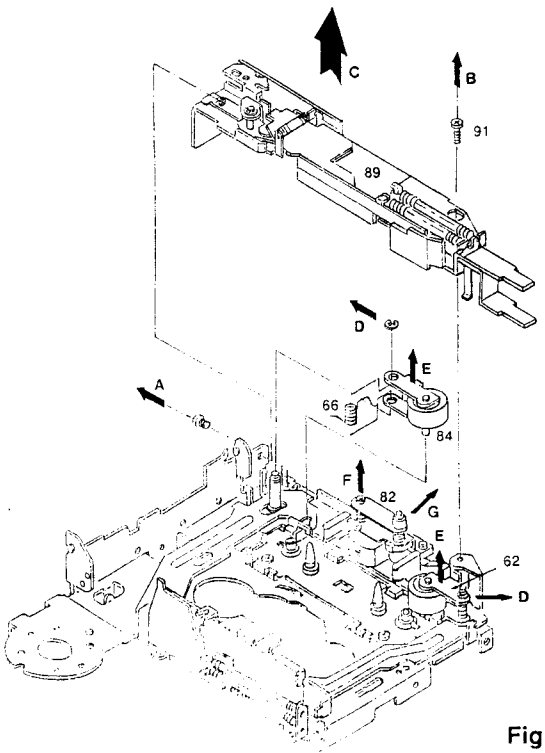


Fig. 4

HEAD SUPPORT 68

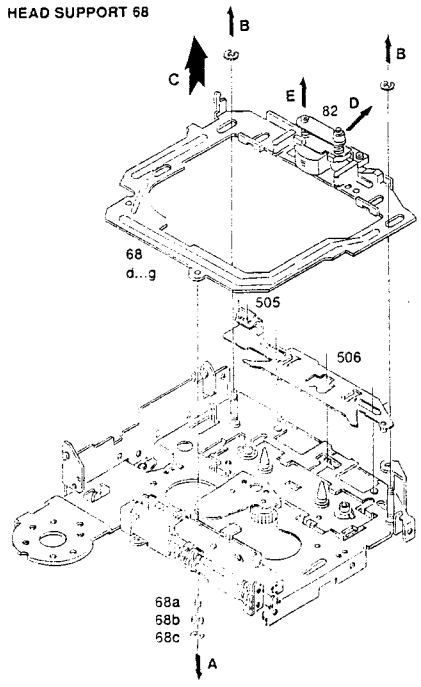


Fig. 5